Uno 100/102 - EM, EE, ES

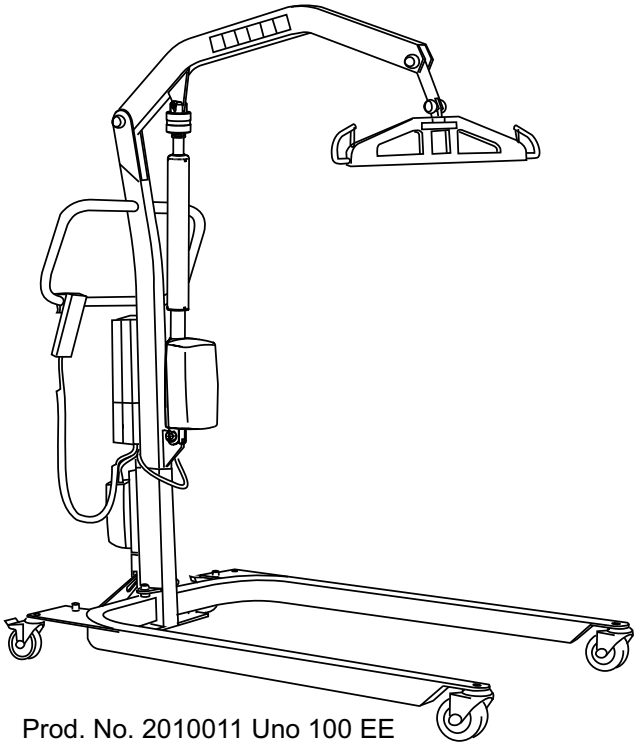
Service Manual

English

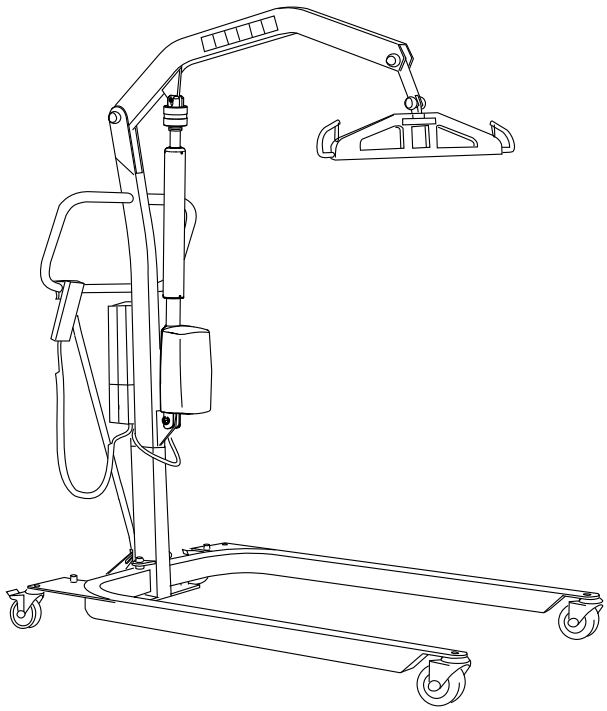
Prod. No. 2010011, 2010012
2010003, 2010004
2010005

3EN500401-04
2009-11-30

Proj: 1262



Prod. No. 2010011 Uno 100 EE
2010004 Uno 102 EE
2010005 Uno 102 ES



Prod. No. 2010012 Uno 100 EM
2010003 Uno 102 EM

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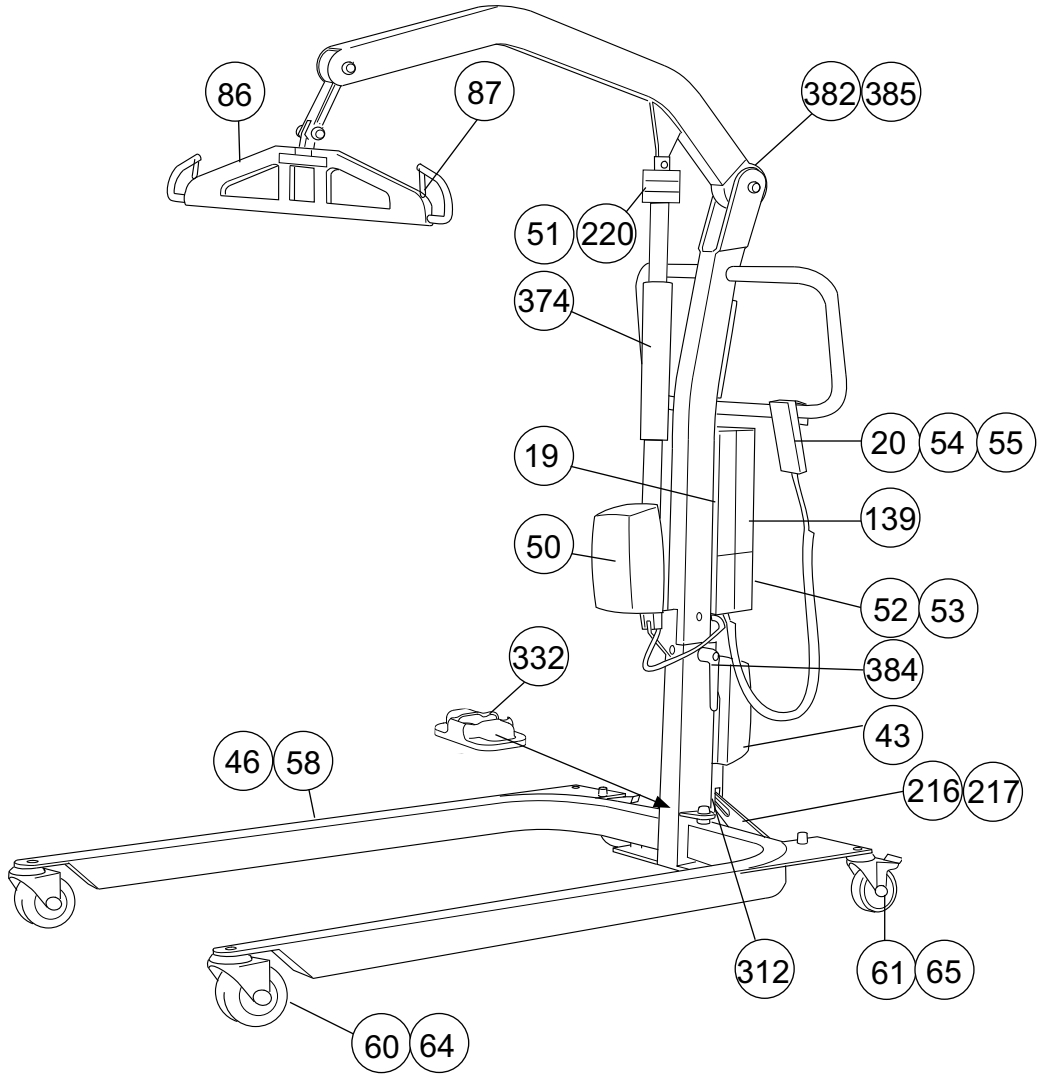
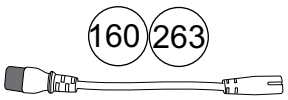
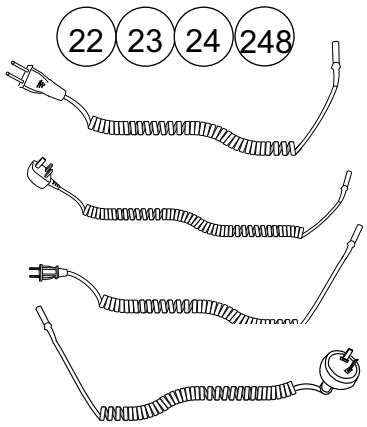
Spare Parts Position

PROD. NO.	PRODUCT
2010011	Uno 100 EE
2010012	Uno 100 EM

PROD. NO.	PRODUCT
2010003	Uno 102 EM
2010004	Uno 102 EE
2010005	Uno 102 ES







Technical Data

Lifting speed: 3.0 cm/s without load
Model ES has two speed levels:
3.0 and 2.0 cm/s (1.2 and 0.8 inch./s)

Batteries: 2 pcs. 12 V 2.9 Ah valve-regulated lead-acid gel-type batteries. New batteries available from supplier.

Battery charger: Built-in charger, 100-240 V AC, 50-60 Hz, max. 400 mA.

Motor (mast): 24 V, 6 A, permanent magnetic motor with mechanical safety mechanism, safety nut and outer tube.

Motor (Base): 24 V, 3.5 A, permanent magnetic motor.

Wheels: Standard front: 75 mm dual.
Standard rear: 75 mm single wheel with brake.
Alt. front: 100 mm single.
Alt. rear: 100 mm single wheel with brake.

Material: Painted steel with lacquer top coat.

Emergency lowering: Mechanical (patented) and electrical.

Intermittent operation: Int. Op 10/90, active operation max 2 min. Out of a time of 100, active must be less than 10, though not more than 2 min.

Degree of protection: IP 43

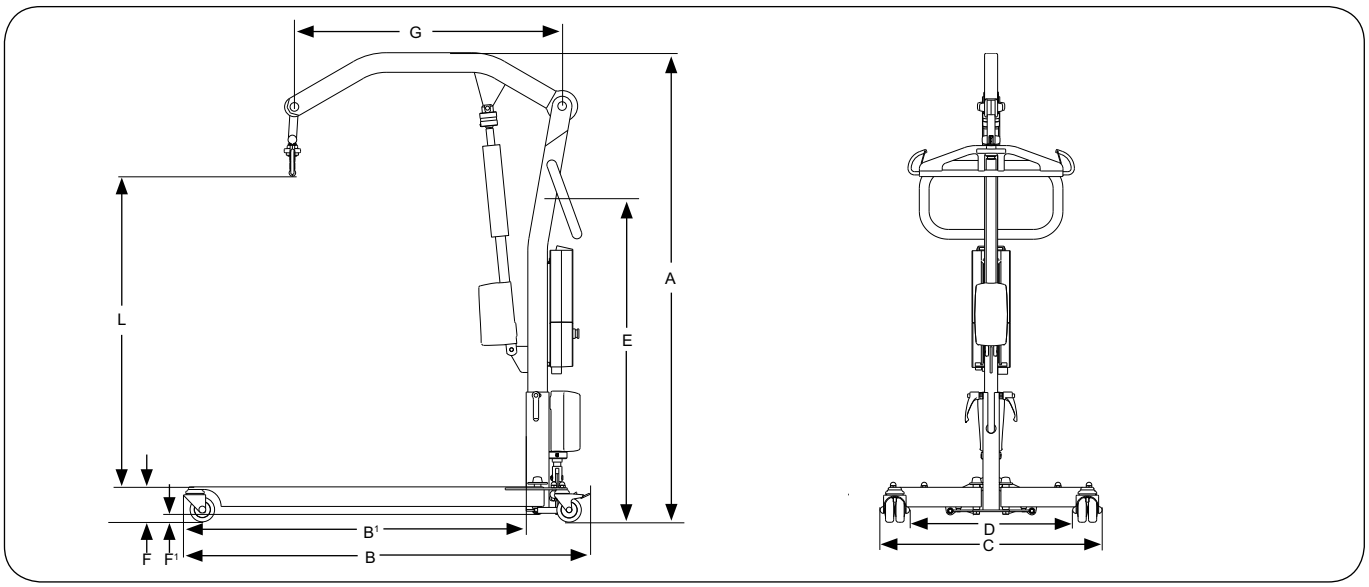
Sound level: 39 dB

Built for indoor operation.

Type B according to the degree of protection against electric chock.

Class II equipment.

Measurements



A: Max. load and Weight in kg. Measures in mm.
B: Max. load and Weight in lbs. Measures in inches.

Uno 100	Max.load	L* Max	L* Min	A* Max	A* Min	B	B¹	C	D	E*	F**	F¹**	G	Weight Total	Weight Part	Turning diameter
A	205	1710 1660 1610	610 560 510	1900 1850 1800	1440 1390 1340	1080	880	690-1100	500-970	1100 1050 1000	110/160	26/66	705	38,1	19,9	1180
B	450	67 65 63	24 22 20	75 73 71	57 55 53	42.5	34.5	27-43	19.5-38	44 42 39	4/6.3	1/2.6	27.8	84	43.9	46.5

Uno 102	Max. load	L* Max	L* Min	A* Max	A* Min	B	B¹	C	D	E*	F**	F¹**	G	Weight Total	Weight Part	Turning diameter
A	175	1790 1740 1690	520 470 420	2000 1950 1900	1420 1370 1320	1240	1040	690-1160	500-1090	1100 1050 1000	110/160	26/66	815	40,3	20,3	1300
B	385	71 69 67	21 19 17	79 77 75	56 54 52	49	41	27-46	19.5-43	44 42 39	4/6.3	1/2.6	32.1	88.3	44.7	51

* *These measures depend in which hole the mast is levelled an secured. Se ese measures hold for the use of the standard slingbar. The change or complementary addition of other lifting accessories result in a change of the lifting height.*

** *The first measure holds for the use of standard wheels (75 mm wheel diameter). The second mesure holds for the use of large wheels (100 mm wheel diameter).*

Troubleshooting

The lift does not work up/down. Width adjustment does not work in/out.	1. Check that the emergency stop button is not pushed in . 2. Check that the cables to the control box are connected correctly . 3. Check that the charging cable is not connected to a wall socket. 4. Check that the battery is charged . 5. Check that the contact plate of the battery box is not defective or broken off. 6. *If the lift still does not work satisfactorily, contact Liko.*
Battery charging does not work.	1. Check that the emergency stop button is not pushed in . 2. Check that the contact plate of the battery box is not defective or broken off. 3. *If the lift still does not work satisfactorily, contact Liko.*
The lift stops in the elevated position.	1. Check that the emergency stop button is not pushed in . 2. Use the electrical emergency lowering device to safely lower the patient . 3. Use the mechanical emergency lowering device to safety lower the patient . 4. Check that the battery is charged . 5. *If the lift still does not work satisfactorily, contact Liko.*
If you hear unusual sounds.	*Contact Liko.*

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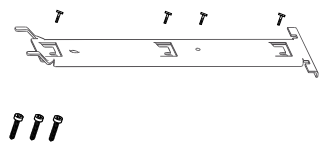
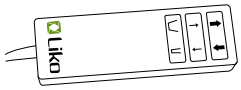
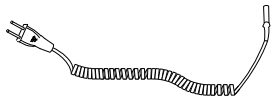
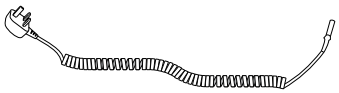
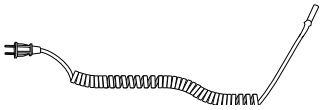
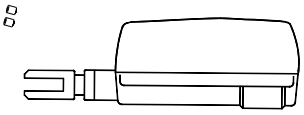
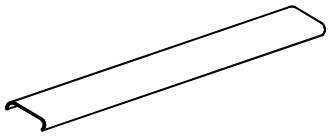
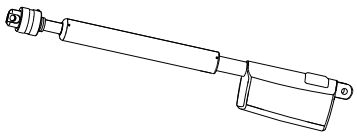
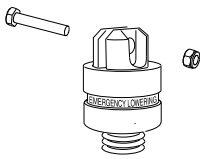
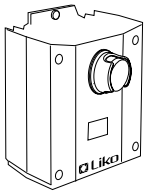
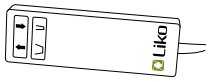
PROD. NO.	POS. NO.	NAME	UNIT	
20090023	19	Attachment for Control Box	pce	
20090024	20	Hand Control ES 6-Button	pce	
20090026	22	Cable for Charging EU	pce	
20090027	23	Cable for Charging UK	pce	
20090028	24	Cable for Charging US	pce	
20190003	43	Actuator for Base Widening	pce	
20190006	46	Leg Protector U2	pair	
20190010	50	Actuator JKSM 350 G U1-2	pce	
20190011	51	Emergency Lowering Device	pce	
20190013 20190014	52 53	Control Box U1-2 EM/EE Control Box U2 ES	pce pce	
20190016	54	Hand Control EM 2-Button	pce	
20190017	55	Hand Control EE 4-Button	pce	

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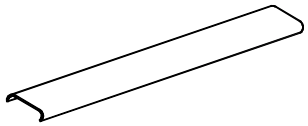
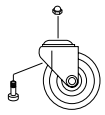
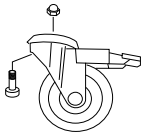
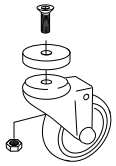
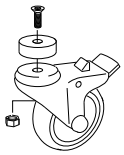
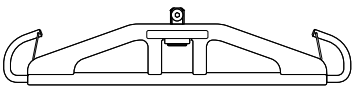
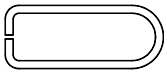
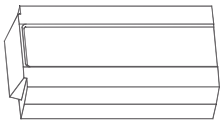
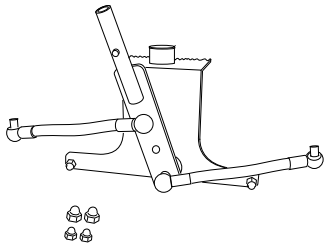
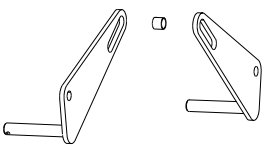
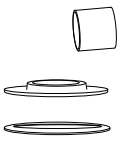
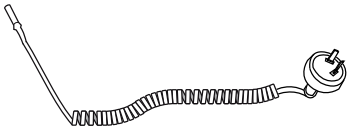
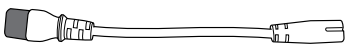
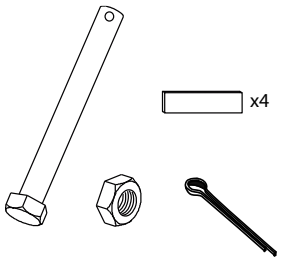
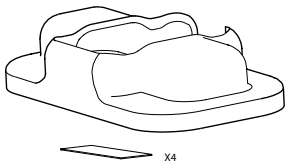
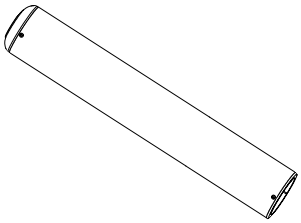
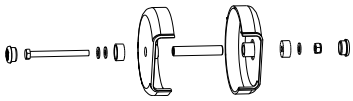
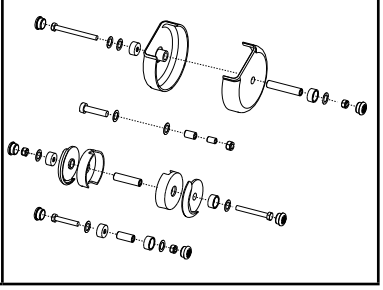
PROD. NO.	POS. NO.	NAME	UNIT	
20190029	58	Leg Protector U1/Sa	pair	
20190042	60	Front Wheel 75 mm	pce	
20190043	61	Rear Wheel 75 mm	pce	
20190046	64	Front Wheel 100 mm	pce	
20190047	65	Rear Wheel 100 mm	pce	
3156001	86	Sling bar Standard 450	pce	
31190018	87	Safety Latch	pair	
2006106	139	Extra Battery box, incl. Batteries	pce	
21090001	160	Extension Cable	pce	
20190049	216	Restoration set Manual Base	set	
20190050	217	Restoration set Electrical Base	set	
20190051	220	Restoration set Emergency Lowering	set	

Uno 100 EM, EE /102 EM, EE, ES

PROD. NO.	POS. NO.	NAME	UNIT	
20090050	248	Cable for Charging AU/NZ	pce	
21090011	263	Extension Cable US	pce	
20190057	312	Screw M12x105 U1,U2,Sa	pce	
20190058	332	Center hood	pce	
20390017	374	Outer Tube LA32, 310 mm	pce	
20190068	382	Lift Arm Plastic Cover set	set	
2107101	384	Locking handles (Sabina, Uno)	pair	
20190069	385	Overhead Beam Restoration	set	

Attachment for Control Box
Monteringsbeslag kontrollbox

Assembly Instruction
Monteringsanvisning

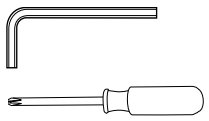
Prod no: 20090023

3SE630238-03
2009-11-13

Contains:	**Qty:**
Screw MRT-GF M5x16	3
Screw MCL6S M5x8	4
Control box attachment pl	1

Fits:
Golvo 7000ES/7007ES
Uno 100 EM/EE
Uno 102 EM/EE/ES
Sabina EM/EE
Sabina II EM/EE
Viking XL
Viking L
Viking M (prod. no. 2040005)

Tools required:



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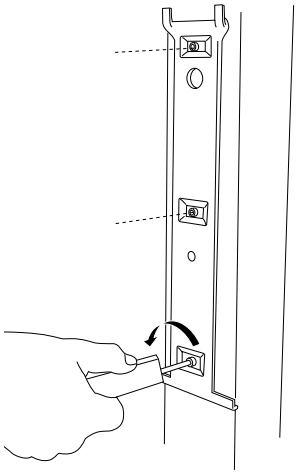
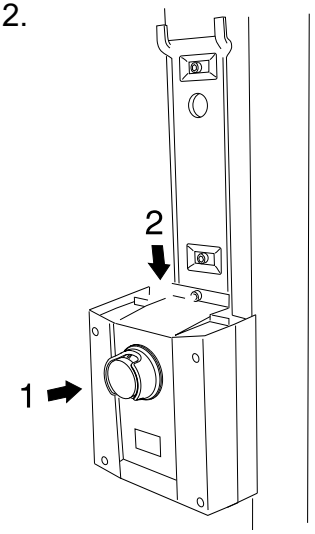


x 3 (Viking M, L, XL, Golvo 7000ES/7007ES)

x 3 (Sabina, Uno)

2.



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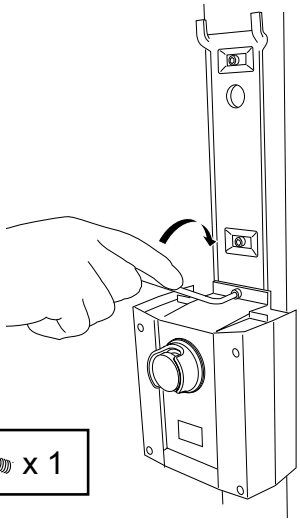
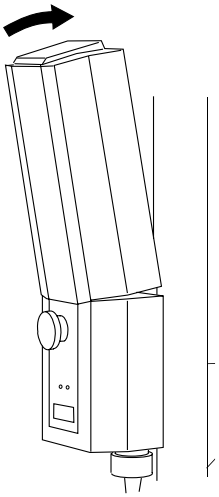


x 1

4.



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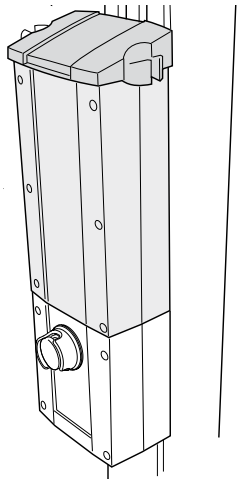


⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Hand Control 2, 4, 6-button
Handkontroll 2, 4, 6-knapp

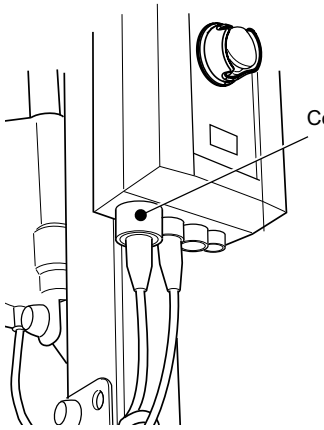
Assembly Instruction
Monteringsanvisning

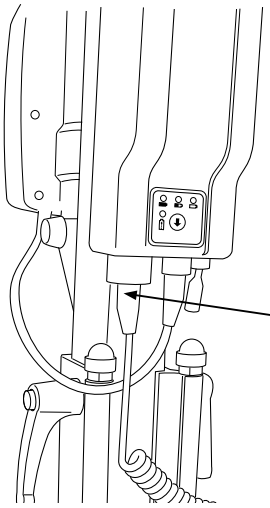
Prod. No. 20090024
20190016
20190017

3SE630204-08
2009-11-04

Contains:	**Qty:**
Hand control EM, EE, ES	1

Fits:
Golvo 7000ES/7007ES
Uno 100 EM/EE
Uno 102 EM/EE/ES
Sabina EM/EE
Sabina II EM/EE
LikoLight
Viking XL
Viking L
Viking M (prod. no. 2040005)
Viking S
Viking XS





⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Cable for Charging, EU
Laddningskabel EU

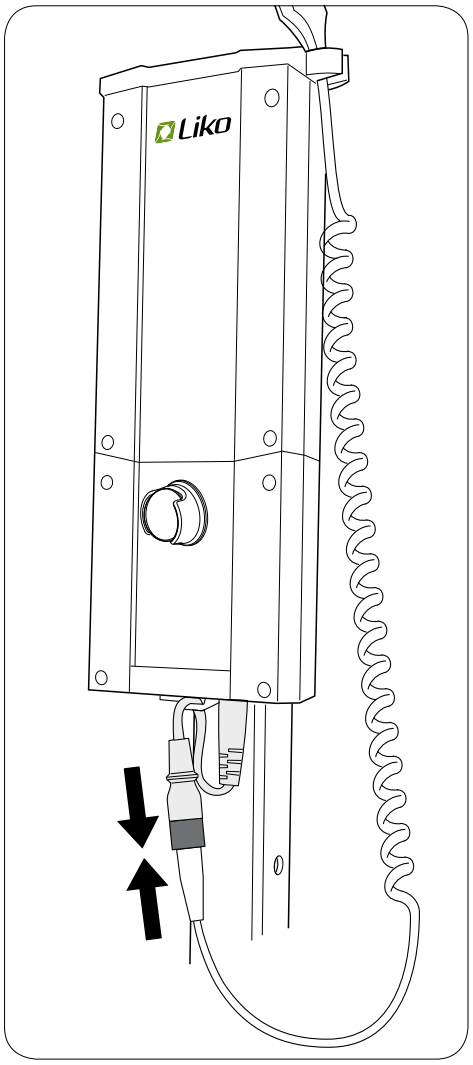
Assembly Instruction
Monteringsanvisning

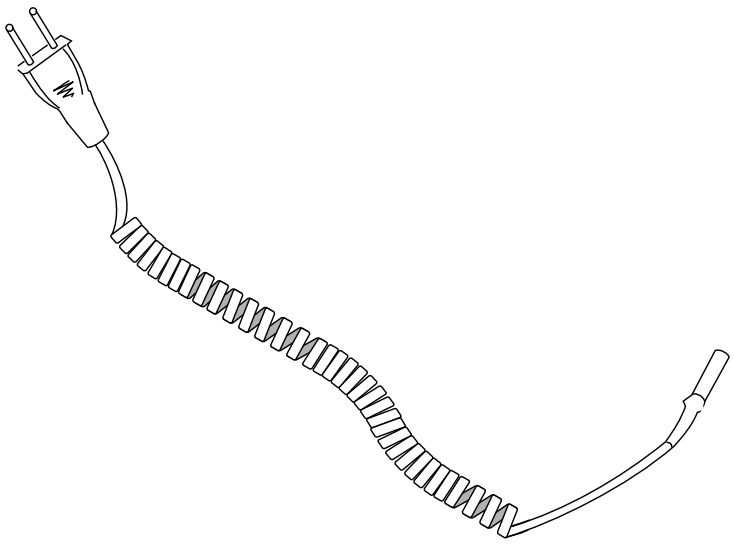
Prod. No. 20090026

3SE630237-03
2009-11-04

Contains:	**Qty:**
Charging cable EU	1

Fits:
Golvo 7000ES/7007ES
Uno 100 EM/EE
Uno 102 EM/EE/ES
Sabina EM/EE
Sabina II EM/EE
Viking XL
Viking L
Viking M





⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Cable for Charging, UK
Laddningskabel UK

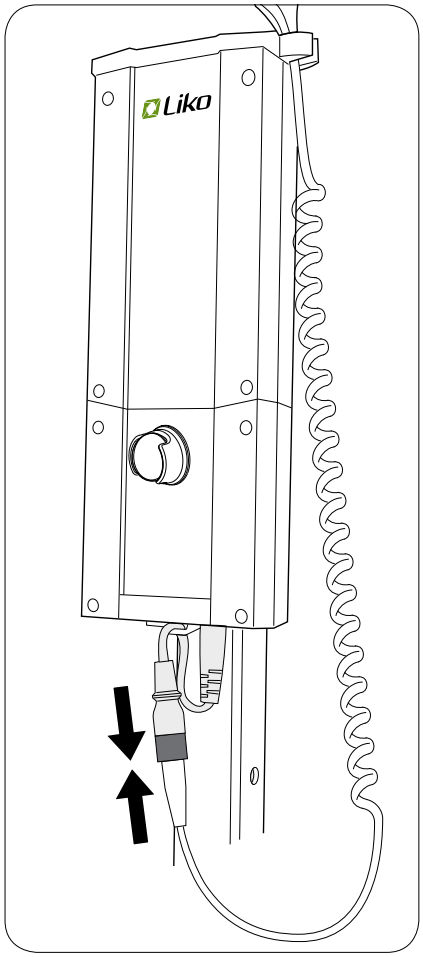
Assembly Instruction
Monteringsanvisning

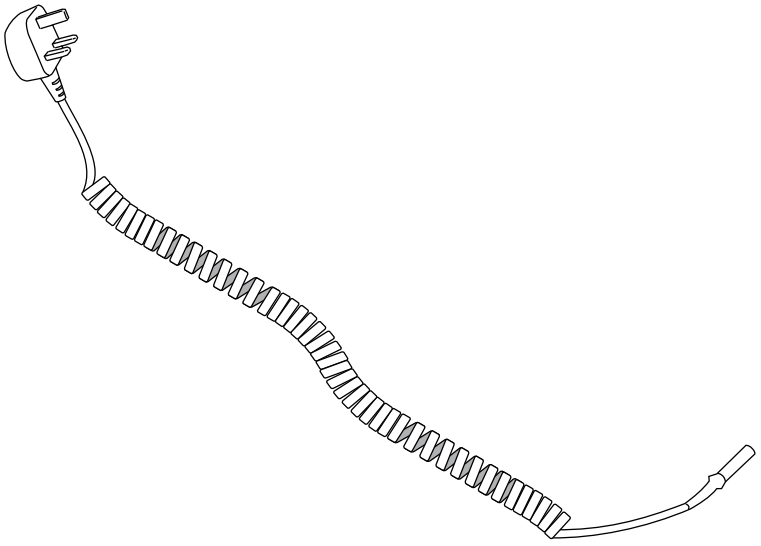
Prod. No. 20090027

3SE630241-03
2009-11-04

Contains:	**Qty:**
Charging cable UK	1

Fits:
Golvo 7000ES/7007ES
Uno 100 EM/EE
Uno 102 EM/EE/ES
Sabina EM/EE
Sabina II EM/EE
Viking XL
Viking L
Viking M





⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Cable for Charging, US
Laddningskabel US

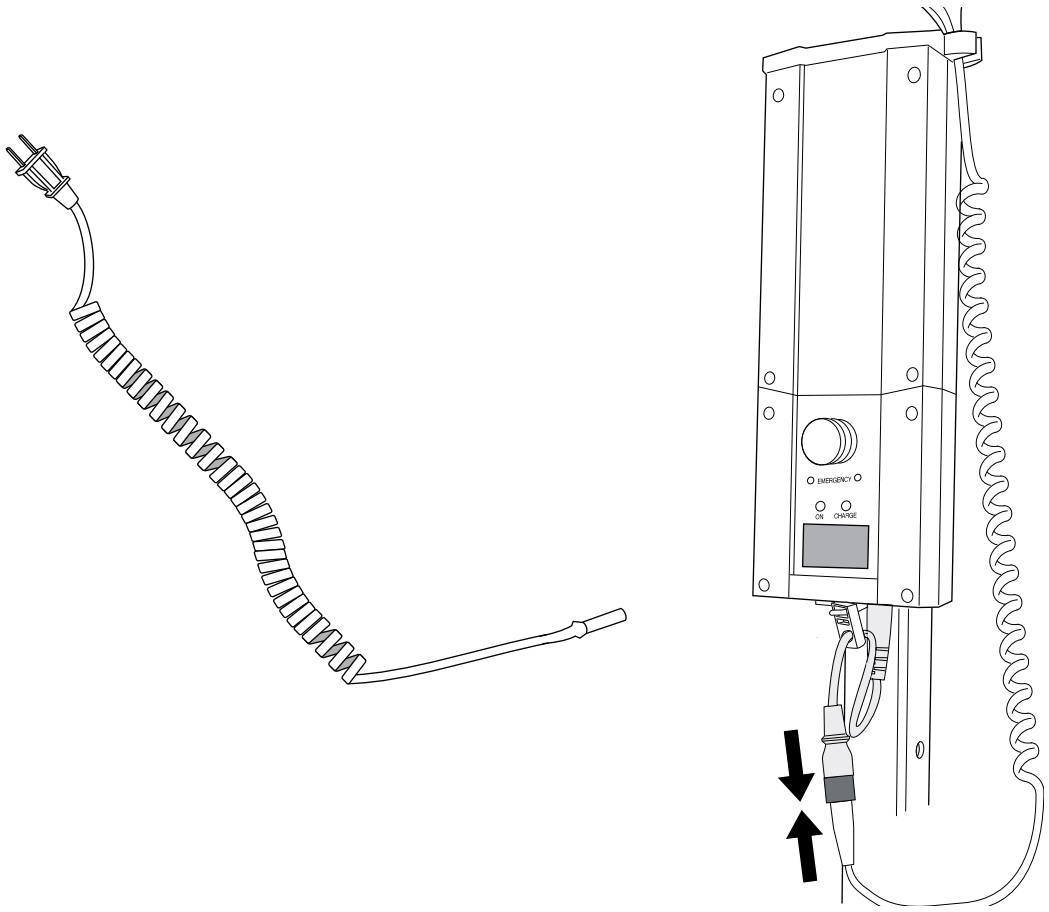
Assembly Instruction
Monteringsanvisning

Prod. No. 20090028

3SE630242-03
2009-11-20

Contains:	**Qty:**
Charging cabel US	1

Fits:
Golvo 7000ES/7007ES
Uno 100 EM/EE
Uno 102 EM/EE/ES
Sabina EM/EE
Sabina II EM/EE
Viking XL
Viking L
Viking M



⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Liko
A Hill-Rom Company

Actuator LA 28
Ställdon LA 28

Assembly Instruction
Monteringsanvisning

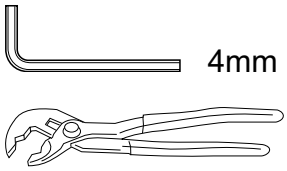
Prod. No. 20190003

3SE640284-03
2009-06-24

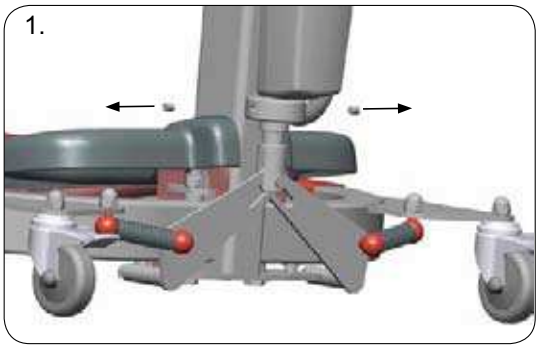
Contains:	**Qty:**
Screw SK6SS M8x10	2
Actuator LA28 grey U102	1

Fits:
Uno 101
Uno 102
Uno 100EM, EE
Uno 102EM, EE, ES
Sabina
Sabina II EE, EM

Tools required:



1.



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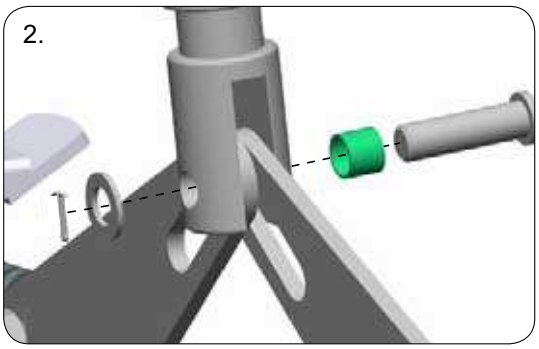

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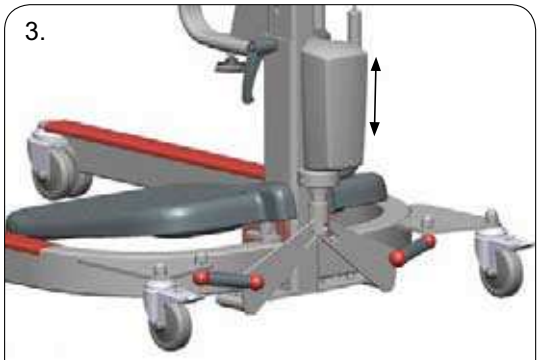
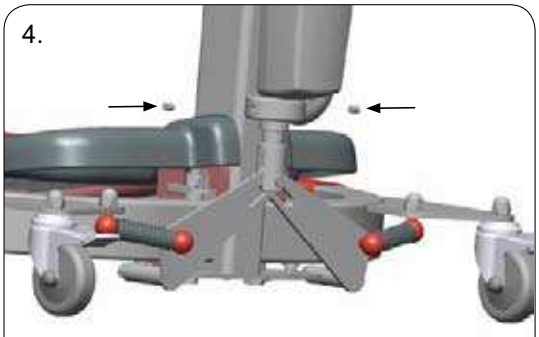


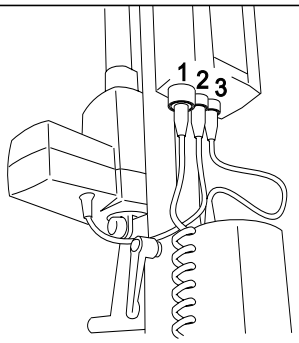
Assemble the actuator enclosed with the sparepart.

4.



Assemble the screws enclosed with the sparepart.
Tightening torque: 8Nm (±5%)

5.



Connect the cables as follows:
- Cable handcontrol to socket 1.
- Cable from the motor for lift arm to socket 2.
- Cable motor for base-width adjustment to outlet 3.

⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Liko
A Hill-Rom Company

Leg Protector U2
Benskydd U2

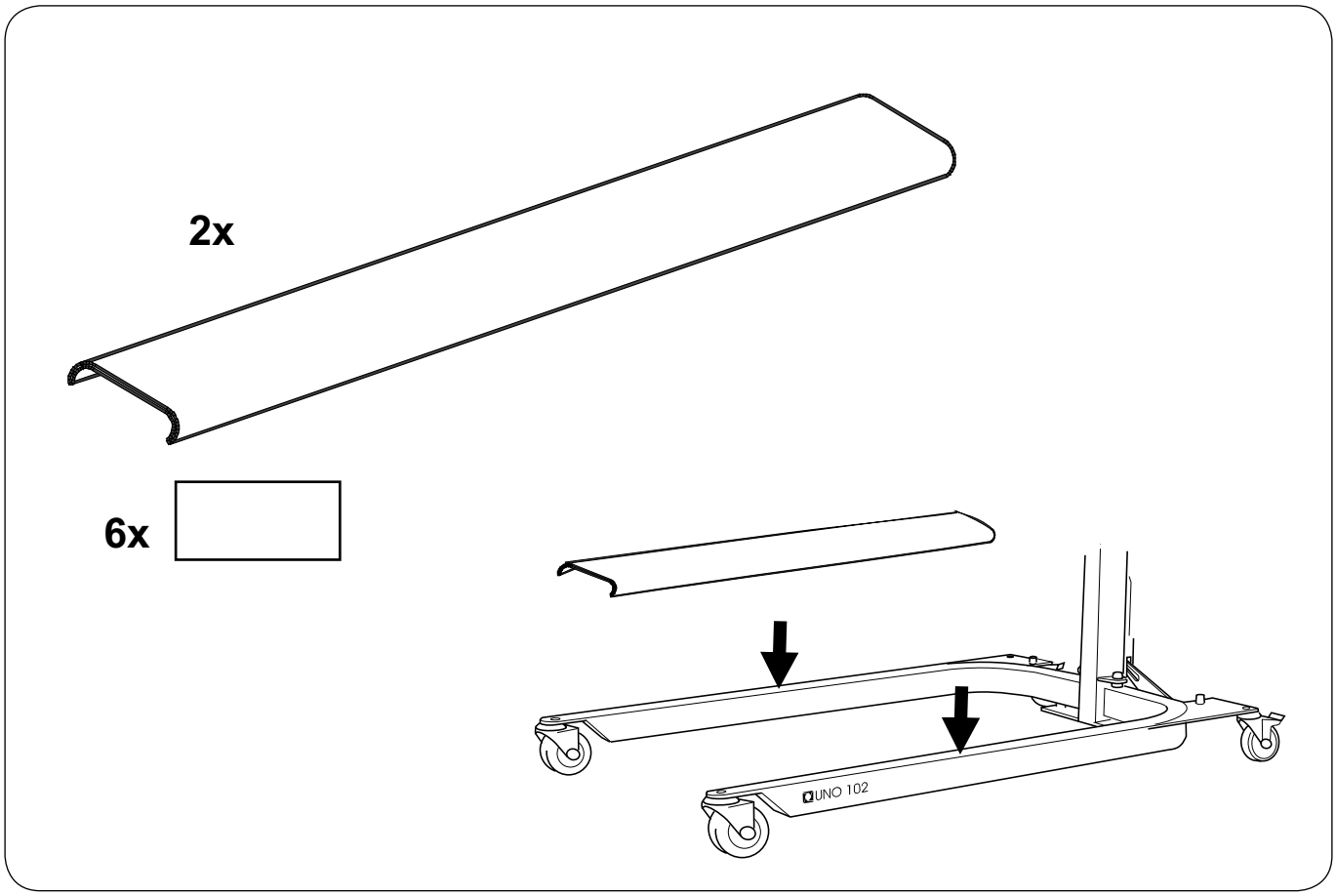
Assembly Instruction
Monteringsanvisning

Prod. No. 20190006

Contains:	Qty:
Leg protector U2	2
Tape-cushion 19x30 Uno	6

Fits:

Uno 102



⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Liko
A Hill-Rom Company

Actuator Uno JKSM 350 G U2
Ställdon JKSM 350 G U2

Assembly Instruction
Monteringsanvisning

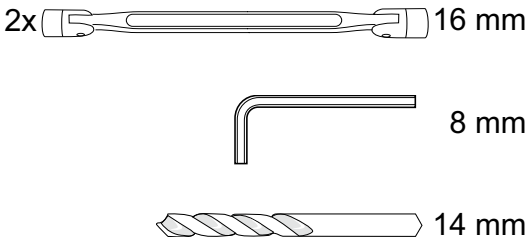
Prod. No. 20190010

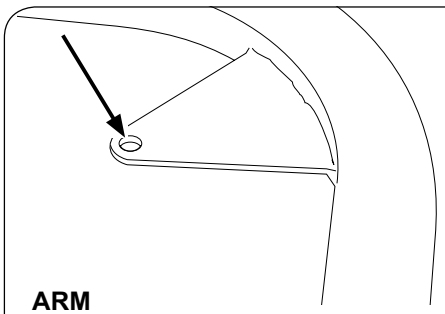
3SE630236-08
2009-05-19

Contains:	**Qty:**
Actuator KSM 350 with emergency lowering	1
Outer Tube LA32 310mm	1
Locking nut M10 Nyloc	2
Screw M6S M10x50 Gl=12	1
Coverhat M10 grey (incl. bottom)	2
Nylon bearing 10/12x15	2
Screw MC6S M10x25	1
Casing em. lowering 10/12x13,5	1
Bearing 12/14x6	1
Washer 12,5/20x0,42	2

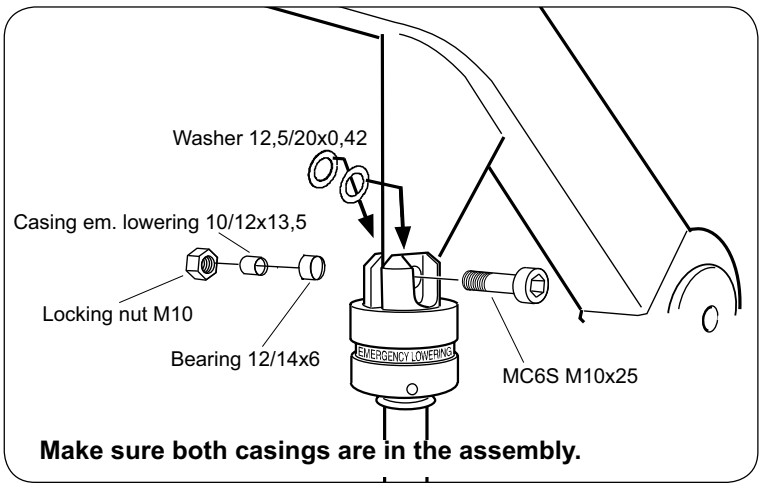
Fits:
Uno 100 EM
Uno 100 EE
Uno 102 EM
Uno 102 EE
Uno 102 ES

Tools required:

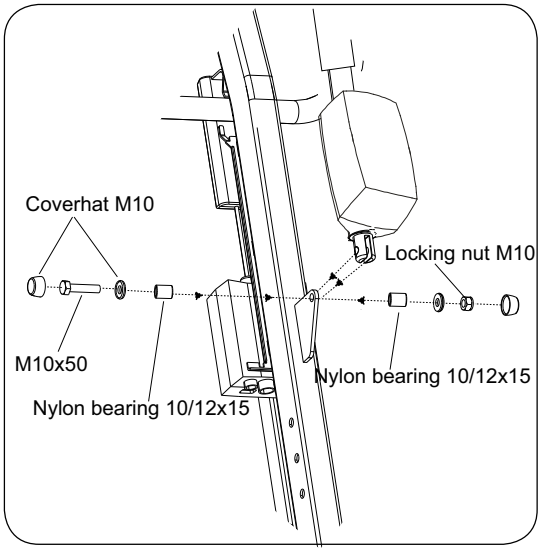


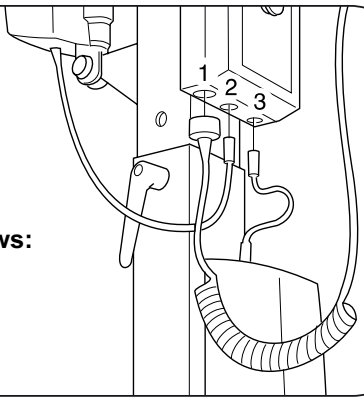


ARM
Uno 100 S/N lower than 7094429:
Uno 102 S/N lower than 45055:
Drill the regular hole to 14 mm.



Make sure both casings are in the assembly.





Attach the cables as follows:
Handcontrol to pos 1
Motor cable mast to pos 2
Motor cable base to pos 3

⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Make sure the Outer Tube easy slides up and down.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Liko
A Hill-Rom Company

Emergency Lowering Device
Nödsänkning U1-2, Sa

Assembly Instruction
Monteringsanvisning

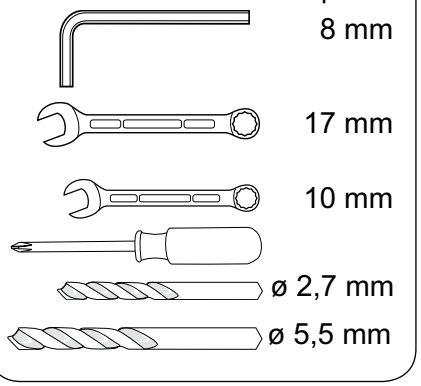
Prod. No. 20190011

3SE630230-05
2009-11-19

Contains:	**Qty:**
O-ring 20,22x3,53 U102	3
Bearing 12/14x6	1
Washer 12,5/20x0,42	2
Twist casing	1
Mounting bush	1
Butt piston housing	1
Casing em. lowering	1
Bushing em. lowering	1
Shim emergency lowering	1
Washer PTFE em.lowering	1
Locking nut M10 nyloc	1
Screw MC6S M10x25	1
Screw 2,9x9,5	1
Bolt 12x34 Em.lowering	1

Fits:
Uno 101
Uno 102
Uno 100 EM/EE
Uno 102 EM/EE/ES
Sabina EM/EE

Tools required:



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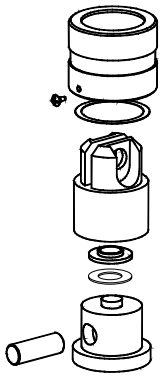
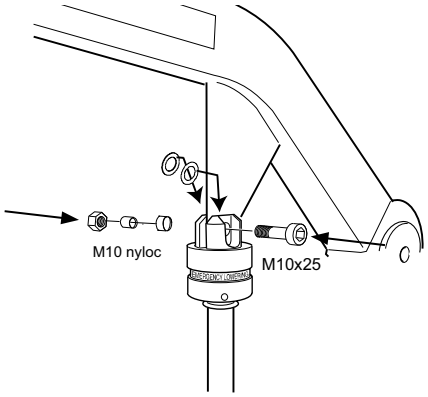


- Adjust the twist casing until the mounting bush slides easily.
- Drill a 11-mm deep hole, located 4 mm above the edge of the twist casing. Use a drill with ø 2,7 mm.
- To countersink the screw into the twist casing - drill with a 5,5 mm drill for the head of the screw.

2.



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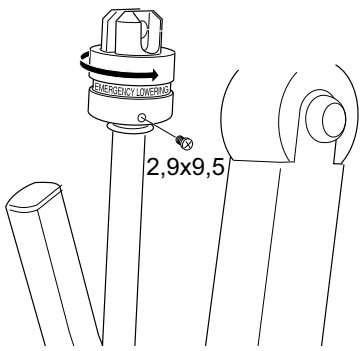

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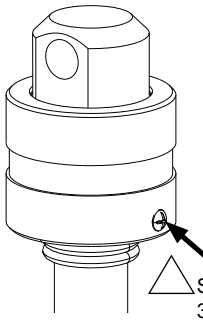


Seal screw, with 31590015 Seal colour Emergency Lowering.

⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

5.52-53.1
Control Box
Kontrollbox

Assembly Instruction
Monteringsanvisning

Prod. No. 20090022, 20190013
20190014, 20290011
20290024, 20390007
20490009, 20490013

3SE630223-04
2009-11-13

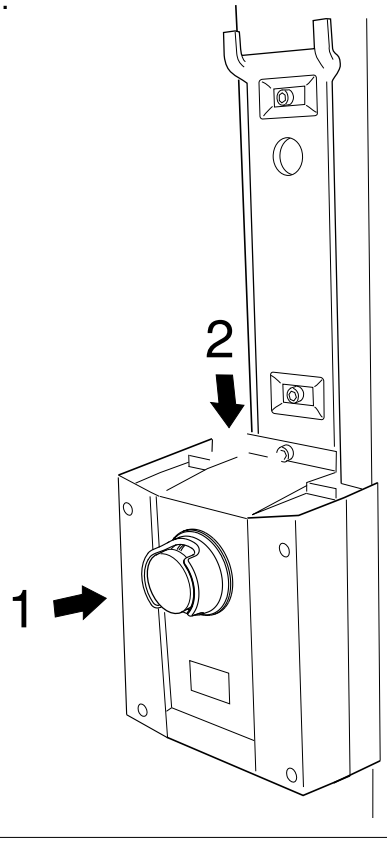
Contains:	**Qty:**
Control Box	1

Fits:
20090022 Golvo 7000ES/7007ES
20190013 Uno 100 EM/EE, Uno 102 EM/EE
20190014 Uno 102 ES
20290011 Sabina EM/EE
20290024 Sabina II EM/EE
20390007 LikoLight
20490009 Viking XL, Viking L
20490013 Viking M (prod. no. 2040005)

Tools required:

3 mm

1.



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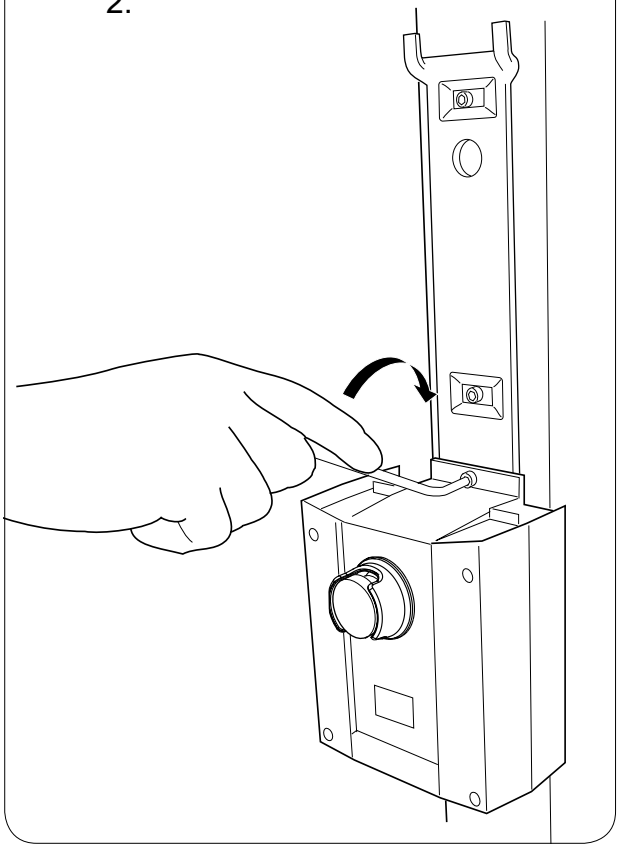


NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

5.54-55.1

Hand Control 2, 4, 6-button
Handkontroll 2, 4, 6-knapp

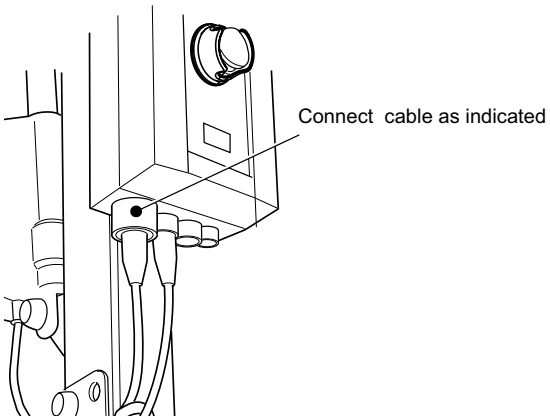
Assembly Instruction
Monteringsanvisning

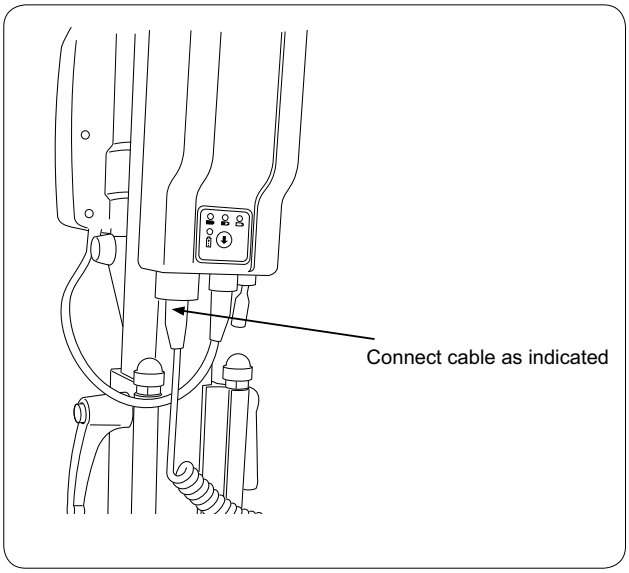
Prod. No. 20090024
20190016
20190017

3SE630204-08
2009-11-04

Contains:	**Qty:**
Hand control EM, EE, ES	1

Fits:
Golvo 7000ES/7007ES
Uno 100 EM/EE
Uno 102 EM/EE/ES
Sabina EM/EE
Sabina II EM/EE
LikoLight
Viking XL
Viking L
Viking M (prod. no. 2040005)
Viking S
Viking XS





⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Liko
A Hill-Rom Company

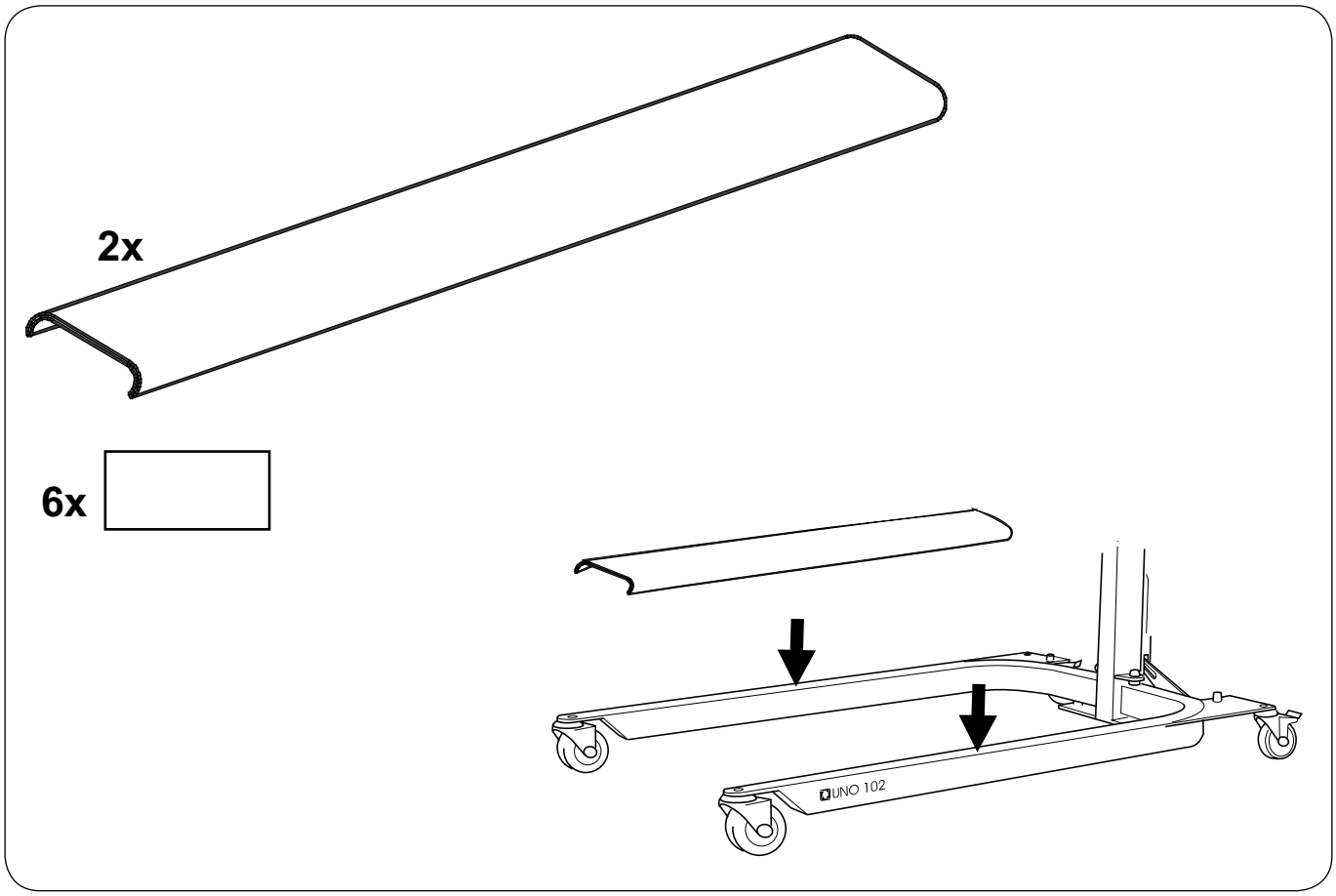
Leg Protector
Benskydd U1 Sa

Assembly Instruction
Monteringsanvisning

Prod. No. 20190029

Contains:	Qty:
Leg protector U1/Sa	2
Tape-cushion 19x30 Uno	6

Fits:
Uno 101



NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Front Wheel 75 mm
Framhjul 75 mm

Assembly Instruction
Monteringsanvisning

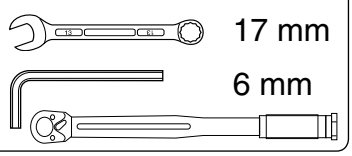
Prod. No. 20190042

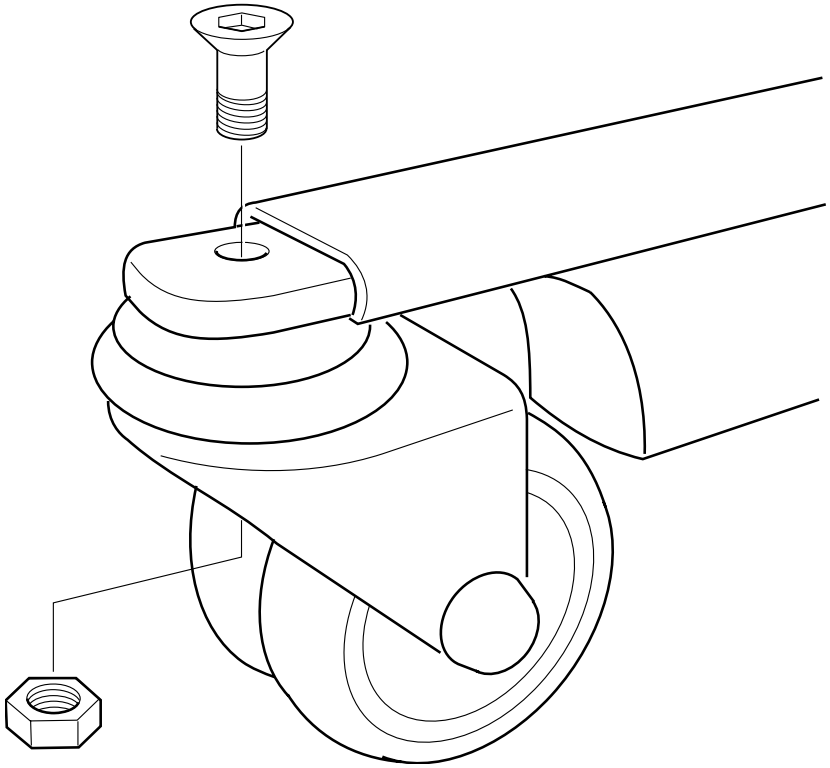
3SE640283-02
2009-09-22

Contains:	**Qty:**
Front wheel 75mm	1
Screw F6S M10x40	1
Locking nut M10 nyloc	1

Fits:
Uno 101
Uno 102
Uno 100EM, EE
Uno 102EM, EE, ES
Sabina
Sabina II EE, EM
Caroli
Capella

Tools required:





△ Tightening Torque / Åtdragningsmoment: 45±5 Nm

△ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Rear Wheel 75 mm
Bakhjul 75 mm

Assembly Instruction
Monteringsanvisning

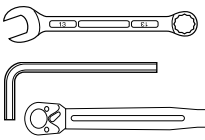
Prod. No. 20190043

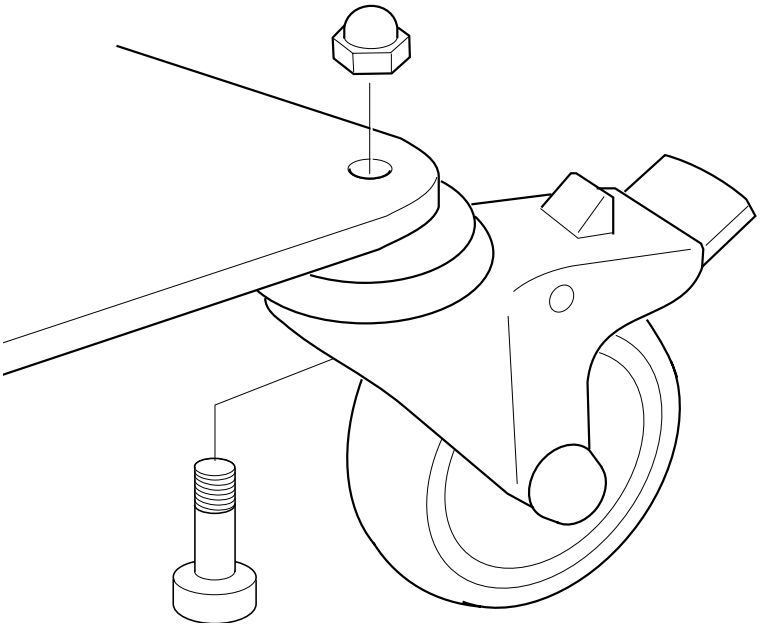
3SE640282-02
2009-09-22

Contains:	**Qty:**
Rear wheel 75mm	1
Domed locking nut M10	1
Screw MC6S M10x25	1

Fits:
Uno 101, 102
Uno 100EM, EE
Uno 102EM, EE, ES
Sabina
Sabina II EE, EM
Caroli
Capella

Tools required:





△ Tightening Torque / Åtdragningsmoment: 45±5 Nm

△ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Front Wheel 100 mm
Framhjul 100 mm

Assembly Instruction
Monteringsanvisning

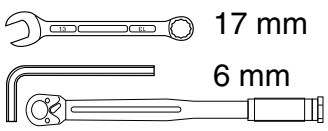
Prod. No. 20190046

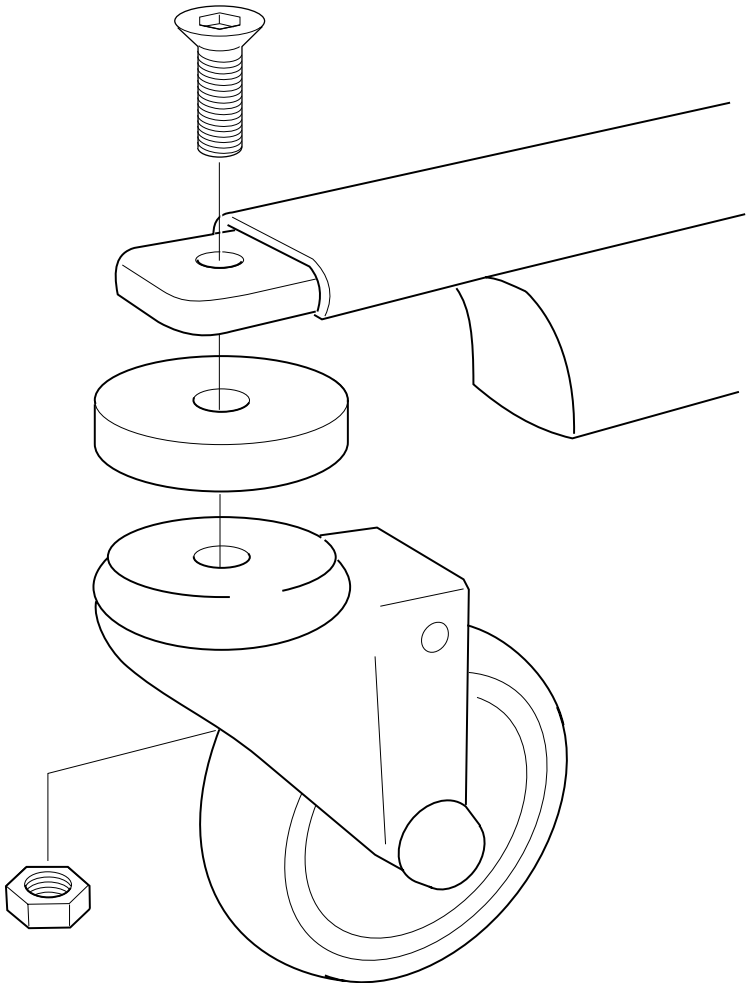
3SE640281-02
2009-06-24

Contains:	**Qty:**
Spacer rear 50/10,5*10 mm	1
Castor 100 mm	1
Locking nut M10 nyloc	1
Screw F6S M10x50	1

Fits:
Uno 101
Uno 102
Uno 100EM, EE
Uno 102EM, EE, ES
Sabina
Sabina II EE, EM

Tools required:





△ Tightening Torque / Åtdragningsmoment: 45±5 Nm

△ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Liko
A Hill-Rom Company

Rear Wheel 100 mm
Bakhjul 100 mm

Assembly Instruction
Monteringsanvisning

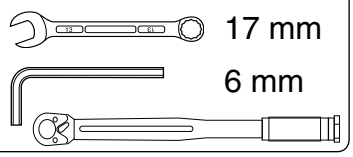
Prod. No. 20190047

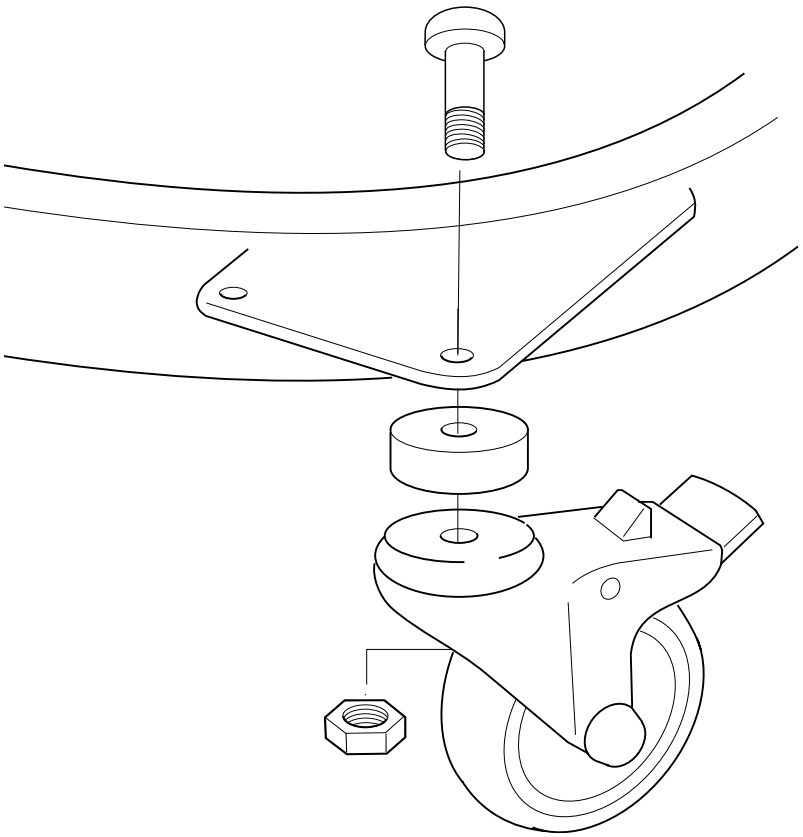
3SE640285-02
2009-06-23

Contains:	**Qty:**
Spacer front 50/10,5*15mm	1
Castor with brake 100mm	1
Screw K6S M10x50	1
Locking nut M10 nyloc	1

Fits:
Uno 101, 102
Uno 100EM, EE
Uno 102EM, EE, ES
Sabina
Sabina II EE, EM

Tools required:





△ Tightening Torque / Åtdragningsmoment: 45±5 Nm

△ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Liko
A Hill-Rom Company

Sling Bar Standard 450
Lyftbygel Universal 450

Assembly Instruction
Monteringsanvisning

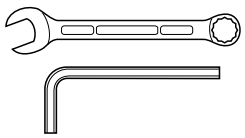
Prod. No. 3156001

3SE650246-02
2009-11-30

Contains:	**Qty:**
Stop ring	1
Cover bearing	1
Body Slingbar	1
Slingbar bolt	1
Axis ball bearing 51104 L	1
Locking nut M10 nyloc	1
Screw K6S M10x25/15	1
Safety Latch	2

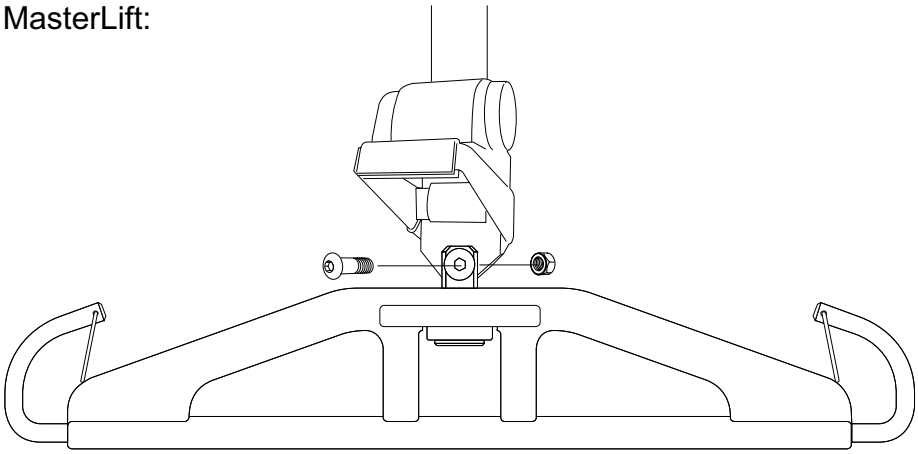
Fits:
MasterLift
Caroli
Uno

Tools required:



17 mm
6 mm

MasterLift:



Caroli:

Tools required:

2x 17 mm

Uno:

Tools required:

2x 10 mm

△ NOTE 1:
The screw joints for Caroli and Uno are not assembled with this spare part. Use existing screw joints.
If existing screw joints are worn or damage they need to be replaced. Use valid Overhead Beam Restoration set for each product. (Prod. No. can be found in the Spare Part List)

△ NOTE 2:
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

5.87.1

Safety Latch
Urkrokningsskydd

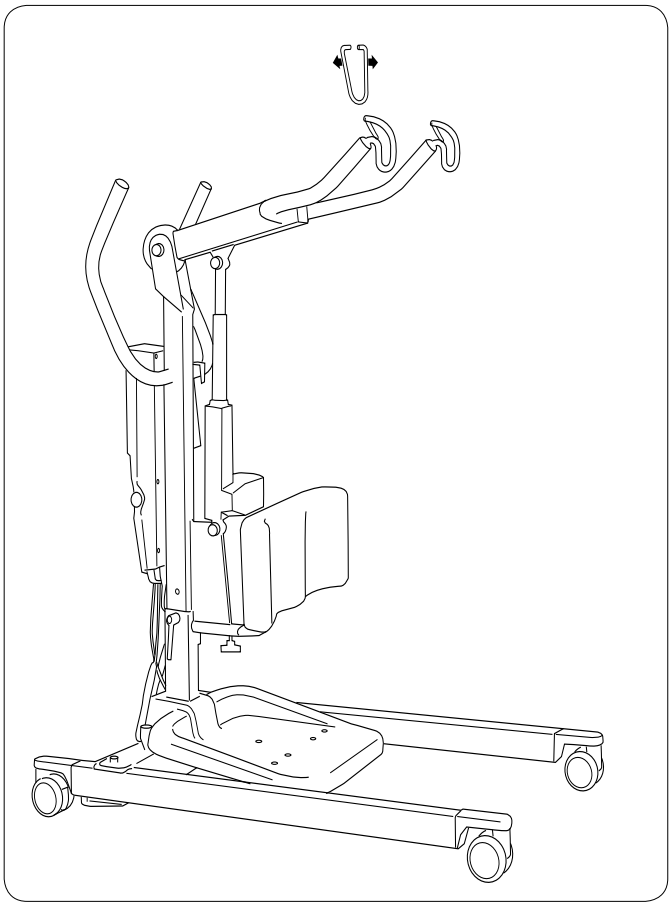
Assembly Instruction
Monteringsanvisning

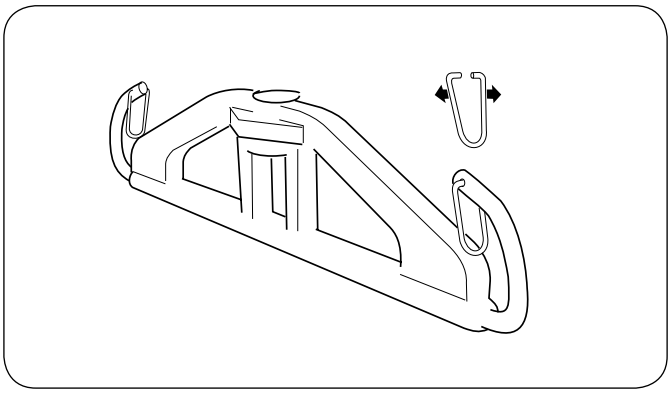
Prod. No. 31190018

3SE640271-03
2009-09-22

Contains:	**Qty:**
Safety Latch	2

Fits:
SlingBar Standard 450
Sabina
Caroli
Capella





⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Liko
A Hill-Rom Company

Extra Battery Box, incl Batteries
Batteribox inkl batterier

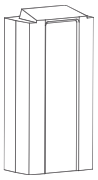
Assembly Instruction
Monteringsanvisning

Prod. No. 2006106

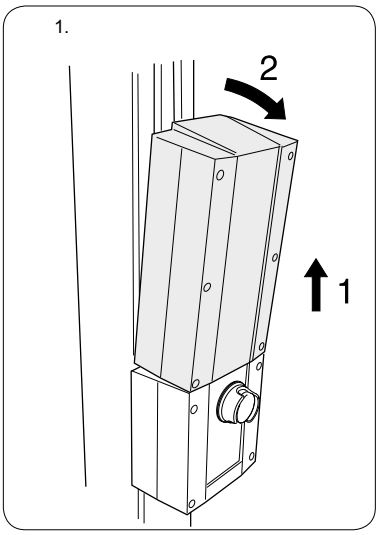
3SE630224-04
2009-11-24

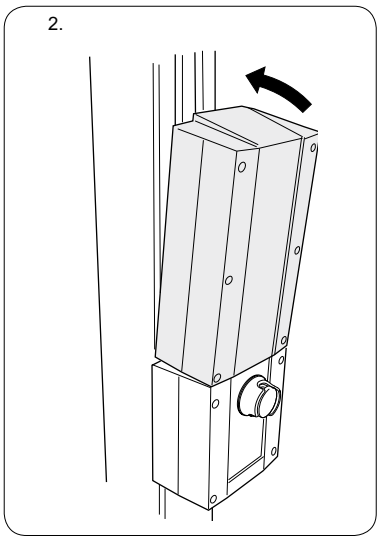
Contains:
Battery box

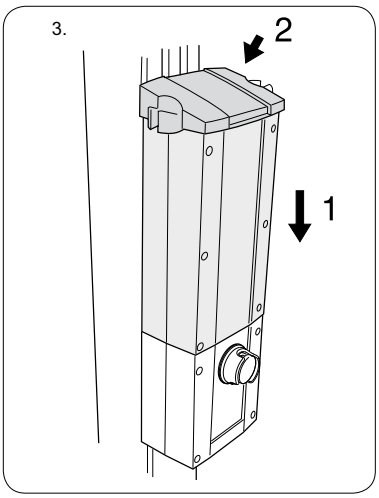
Qty:
1



Fits:
Golvo 7000/7007 (all models)
Uno 100EM,EE,102EM,EE,ES
Sabina
LikoLight
Viking XL
Viking L
Viking M (2040005)
Caroli
Capella







⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.
- Old batteries are to be left at the nearest recycling station or given to personnel authorized by Liko.

5.160.1

Extension Cable
Skarvkabel

Assembly Instruction
Monteringsanvisning

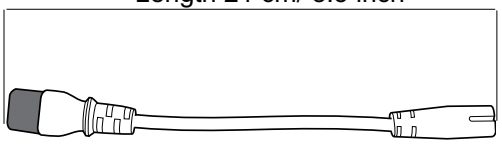
Prod. No. 21090001

3SE630225-03
2009-11-04

Contains:	**Qty:**
Extension cable EU	1

Fits:
Golvo 7000ES/7007ES
Uno 100 EM/EE
Uno 102 EM/EE/ES
Sabina EM/EE
Sabina II EM/EE
Viking XL
Viking L
Viking M (prod. no. 2040005)

Length 21 cm/ 8.5 inch



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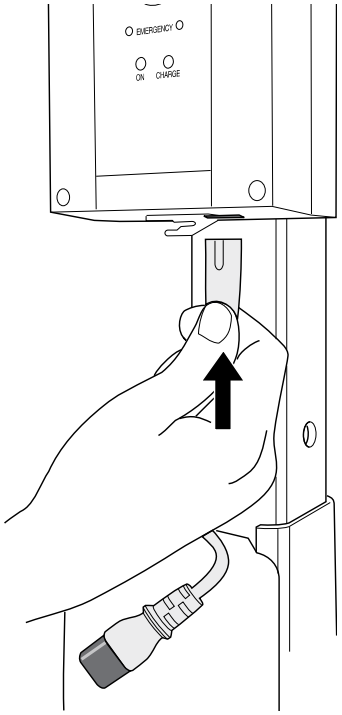

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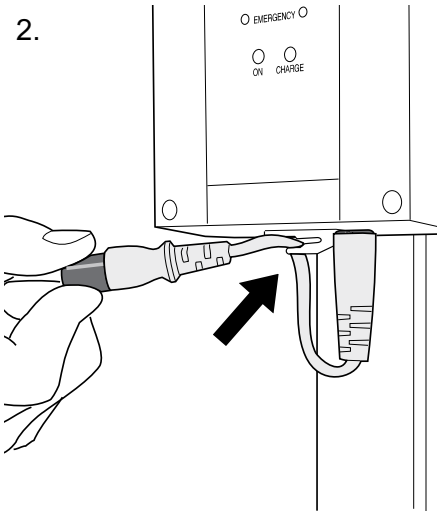
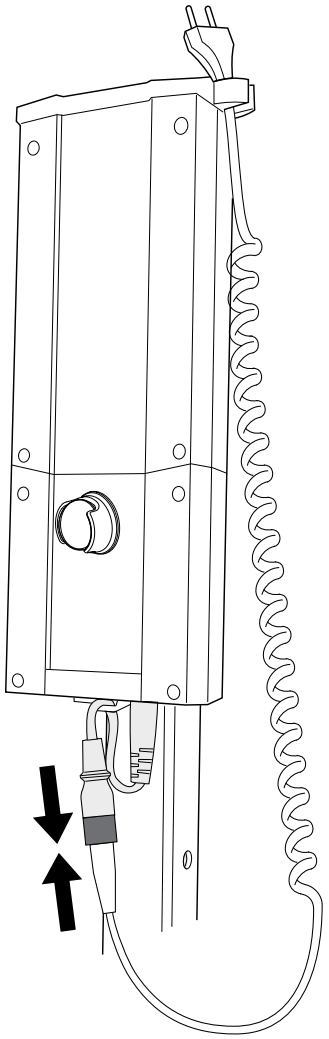


3.



⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Liko
A Hill-Rom Company

Restoration set Manual Base
Renoveringssats manuell breddning

Assembly Instruction
Monteringsanvisning

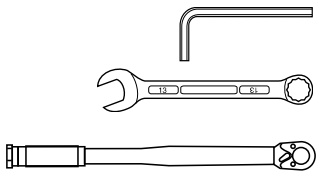
Prod. No. 20190049

3SE630226-03
2009-11-20

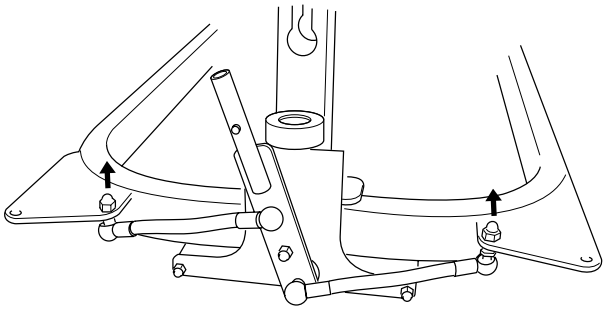
Contains:	**Qty:**
Manual Base	1
Domed locking nut M10	2
Domed locking nut M8	2

Fits:
Uno 100 EM
Uno 102 EM
Sabina EM
Sabina II EM

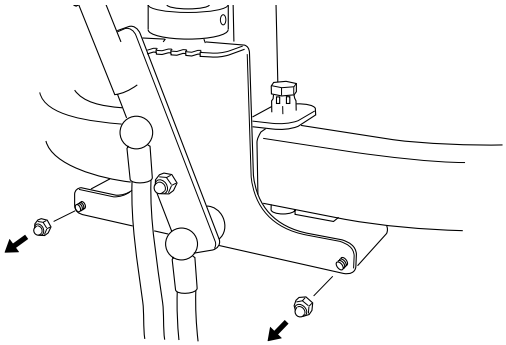
Tools required:



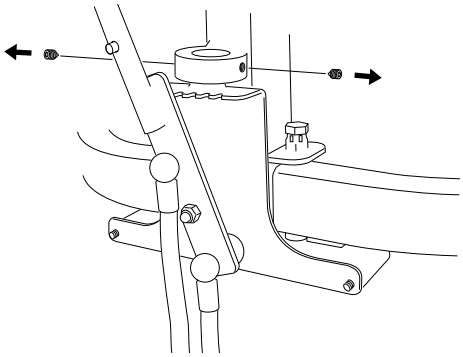
1a. Remove the old manual base.



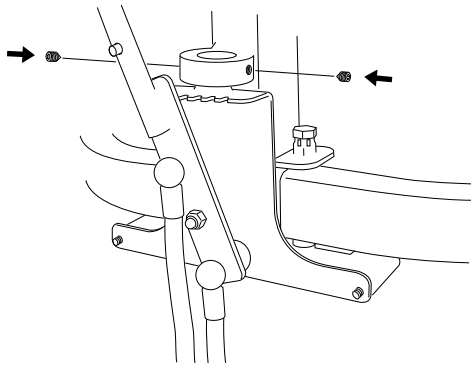
1b.



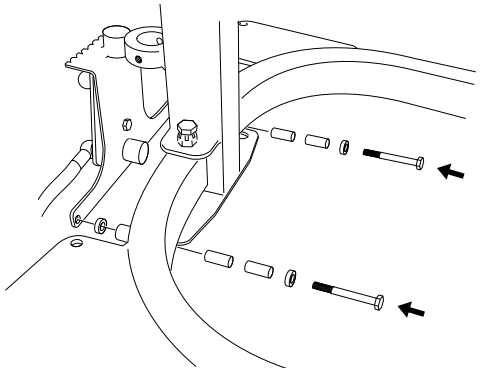
1c.



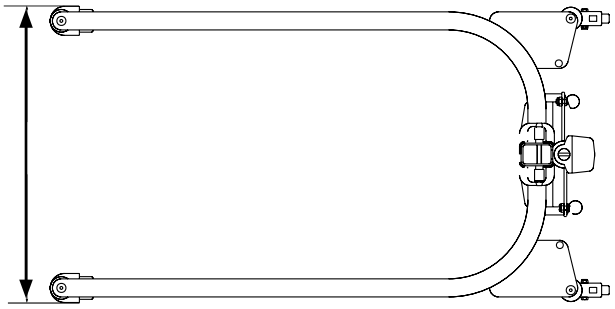
2a. Assemble the new manual base.



2b.

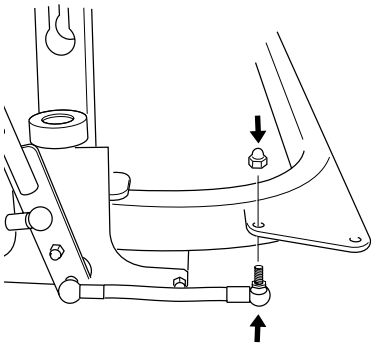


2c. Adjust the legs to the minimum spreading, see the Instruction guide.



2d.

Tightening torque 17 NM



△ **NOTE**
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Restoration set Electrical Base
Renoveringssats elektrisk breddning

Assembly Instruction
Monteringsanvisning

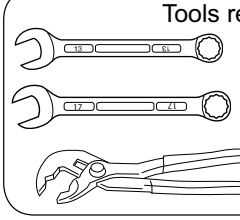
Prod. No. 20190050

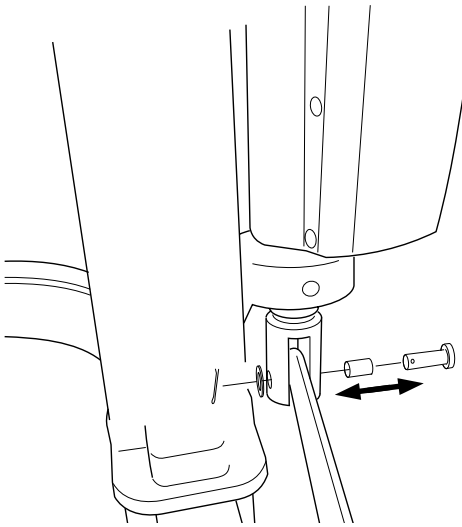
3SE630227-03
2009-06-25

Contains:	**Qty:**
Jointed arm right	1
Jointed arm left	1
Bearing 103-10-12 Uno	1
Split Pin SP 3,2x20	2
Split Pin SP 2,5x16	1

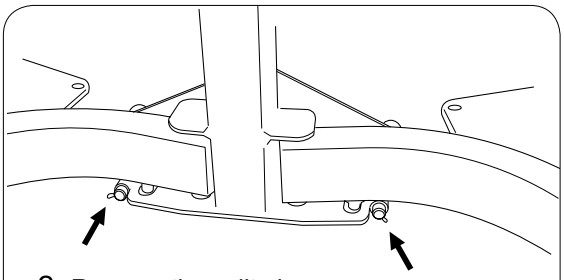
Fits:
Uno 101,102
Uno 100EM,EE,102EM,EE,ES
Sabina
Sabina II EE, EM

Tools required:

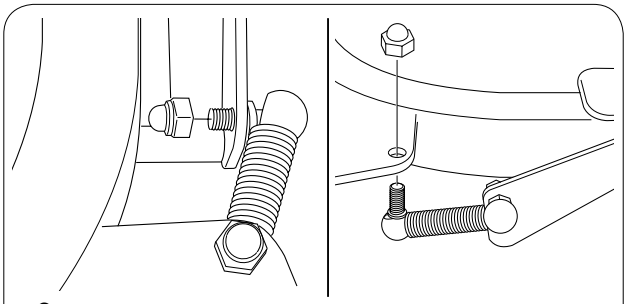




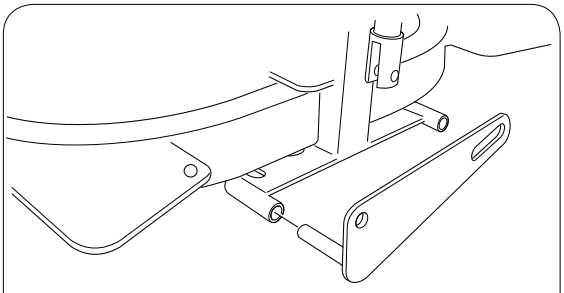
1. Remove the split pin. Pull out the bearing and the pin bolt. Keep the bolt for later use.



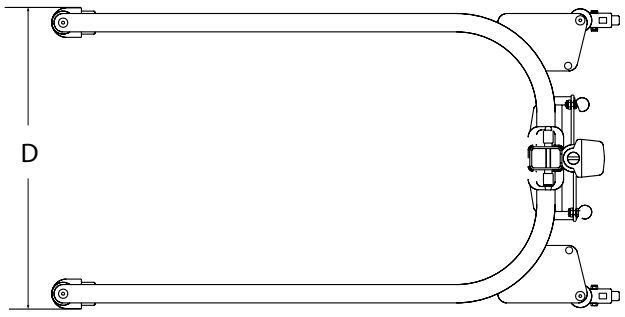
2. Remove the split pins.



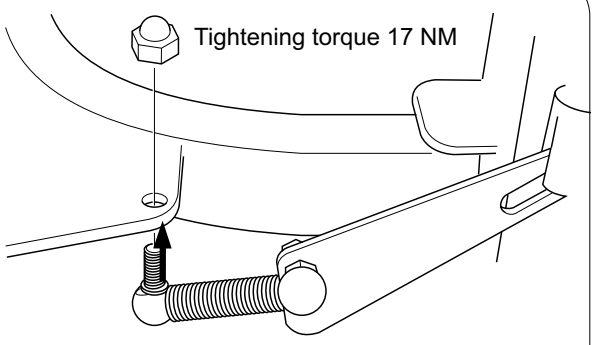
3. Remove the rounded locking bolt nuts from the jointed arms and the legs.



4. Pull out the jointed arms. Assemble in reverse order: Jointed arms (new), bearing (new), pin bolt (old). Drive the actuator to the highest position.



5. Adjust the legs to the minimum spreading (size ”D” in the Technical Specifications).



6. Mount the ball couplings on the legs in the same position as before.

△ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Liko
A Hill-Rom Company

Restoration set Emergency Lowering
Renoveringssats mekanisk nödsänkning

Assembly Instruction
Monteringsanvisning

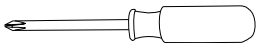
Prod.no: 20190051

3SE630222-05
2009-06-24

Contains:	**Qty:**
Casing emergency lowering	1
Bushing emergency lowering	1
Shim emergency lowering	1

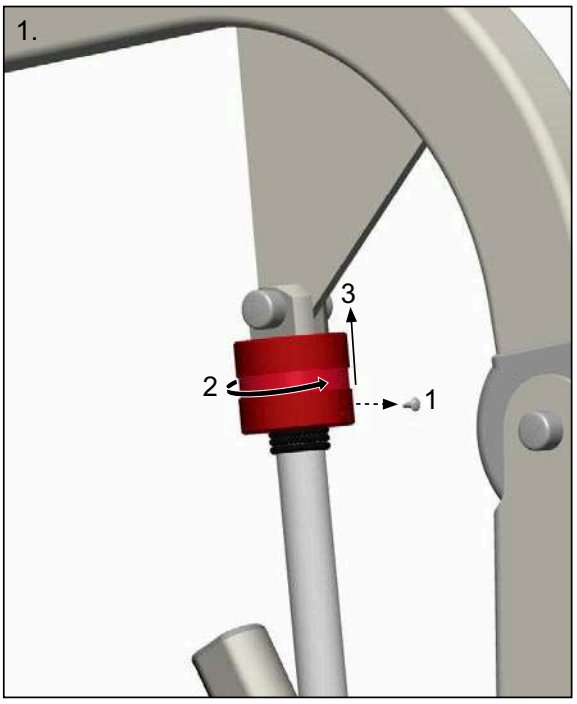
Fits:
Uno 101
Uno 102
Uno 100EM, EE
Uno 102EM, EE, ES
Sabina
LikoLight
Viking S
Viking XS

Tools required:



Viking S,
Viking XS:

1.



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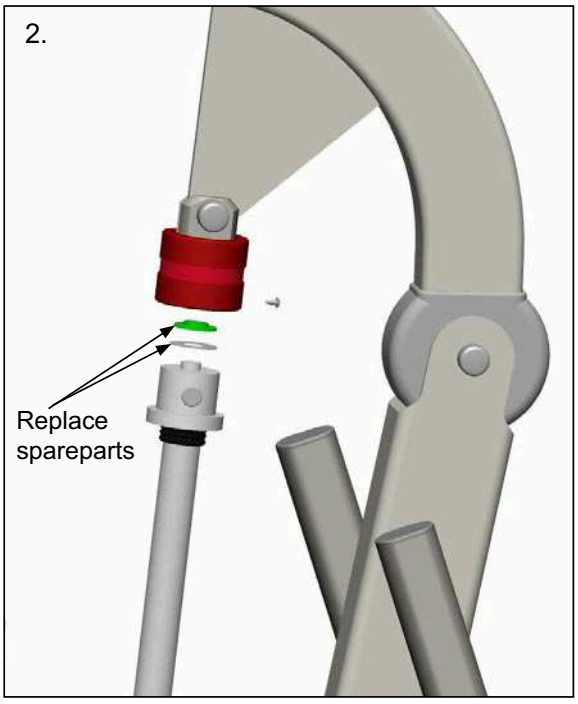
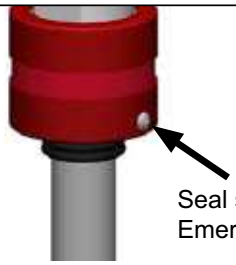
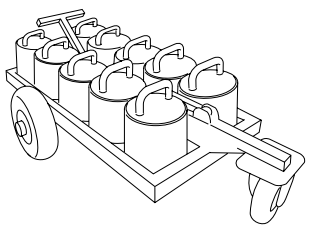




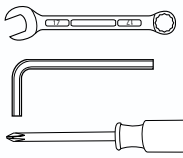
Seal screw with 31590015 Seal colour, Emergency Lowering

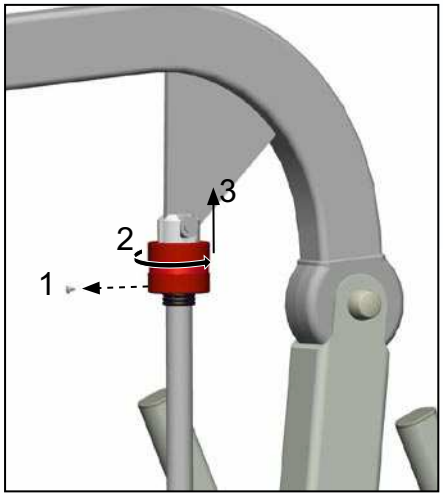


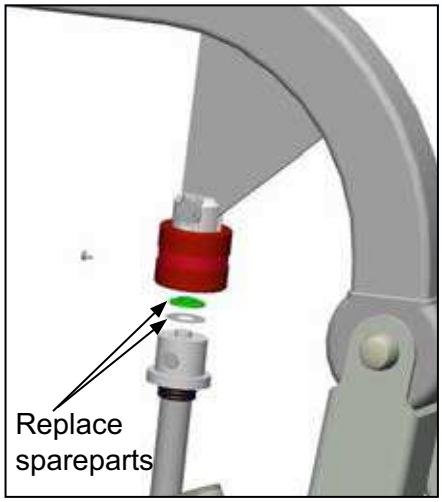
After changing the emergency lowering the lift must be tested with maximum load.

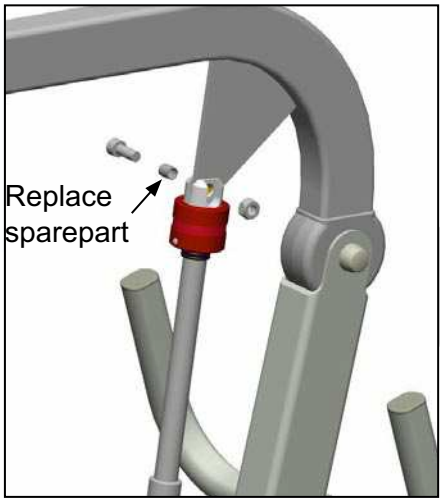
Uno,
Sabina,
LikoLight up to S/N 2504053:

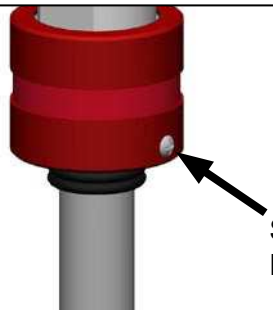
Tools required:



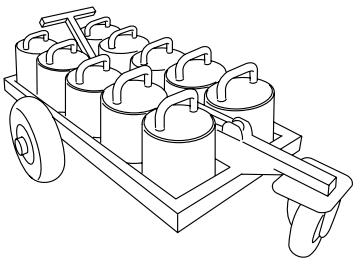








Seal screw with 31590015 Seal colour, Emergency Lowering



After changing the emergency lowering the lift must be tested with maximum load.

⚠ NOTE

- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Cable for Charging, AU/NZ
Laddningskabel AU/NZ

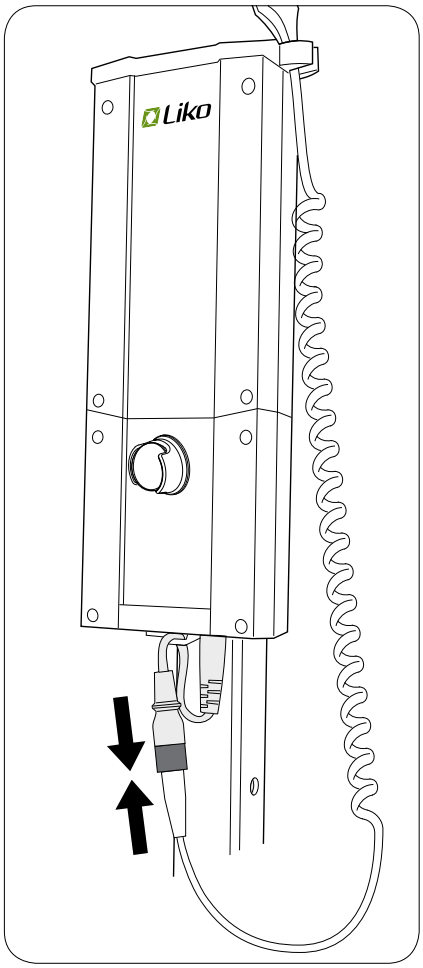
Assembly Instruction
Monteringsanvisning

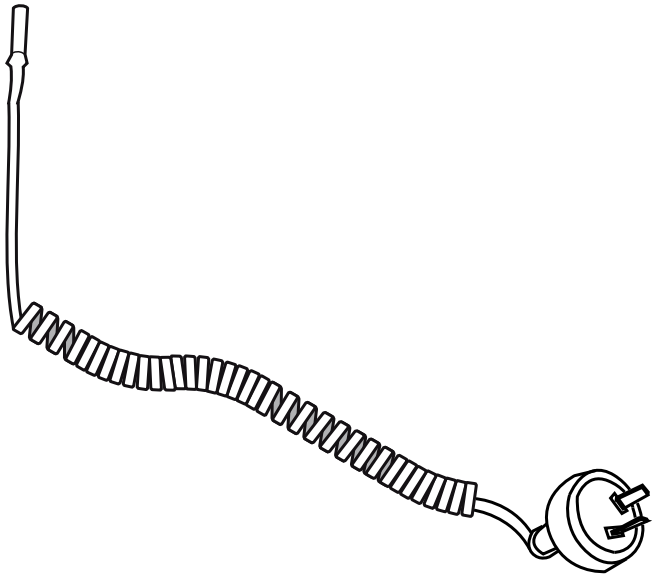
Prod. No. 20090050

3SE630243-04
2009-11-13

Contains:	**Qty:**
Cable for Charging AU/NZ	1

Fits:
Golvo 7000ES/7007ES
Uno 100 EM/ES
Uno 102 EM/EE/ES
Sabina EM/EE
Sabina II EM/EE
Viking XL
Viking L
Viking M





⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Extension Cable, US
Skarvkabel, US

Assembly Instruction
Monteringsanvisning

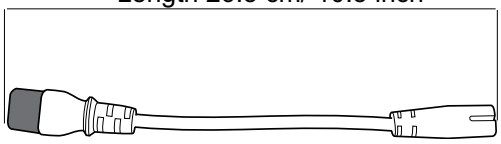
Prod. No. 21090011

3SE630218-03
2009-11-13

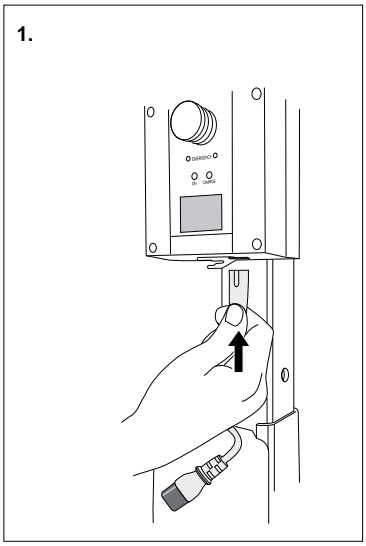
Contains:	**Qty:**
Extension cable US	1

Fits:
Golvo 7000ES/7007ES
Uno 100 EM/EE
Uno 102 EM/EE/ES
Sabina EM/EE
Sabina II EM/EE
Viking XL
Viking L
Viking M (prod. no. 2040005)

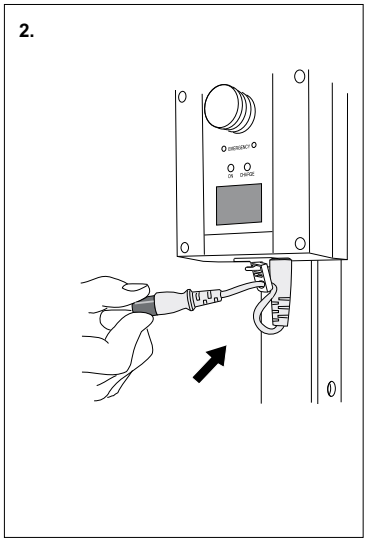
Length 26.5 cm/ 10.5 inch



1.



2.



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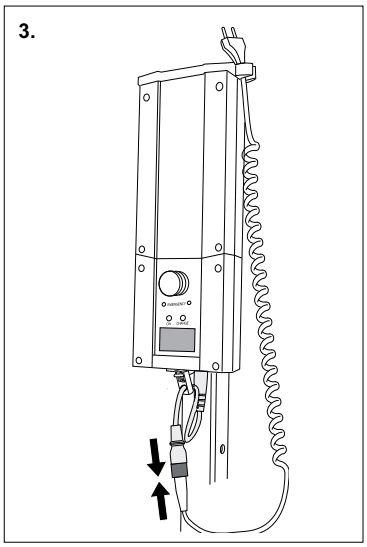


⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Liko
A Hill-Rom Company

Screw M12x105 U1-2, Sa
Skruv M12x105 U1,U2,Sa

Assembly Instruction
Monteringsanvisning

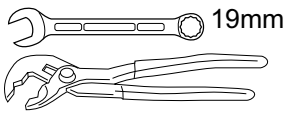
Prod. No. 20190057

3SE640245-03
2009-11-09

Contains:	**Qty:**
Split Pin SP 3,2x20	1
Locking nut M12	1
Screw M6S M12x105	1
Tape 19x30 Uno	4

Fits:
Uno 101, Uno 102
Uno 100 EM/EE, Uno 102 EM/EE/ES
Sabina EM/EE, Sabina II EM/EE

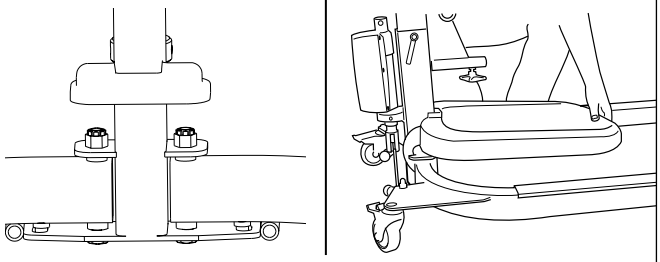
Tools required:



Uno 100 to S/N: 7092715
Uno 102 to S/N: 41550

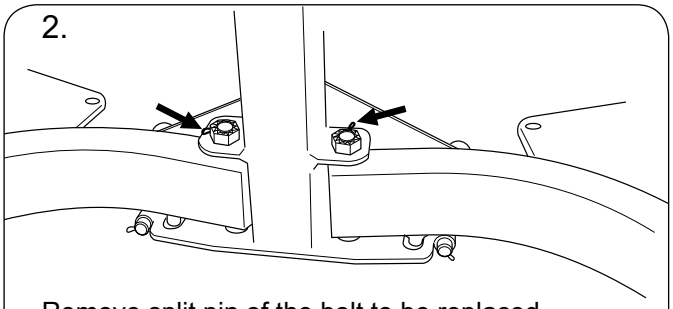
Sabina EM/EE to S/N: 406484
Sabina II EM/EE to S/N: 413259

1.



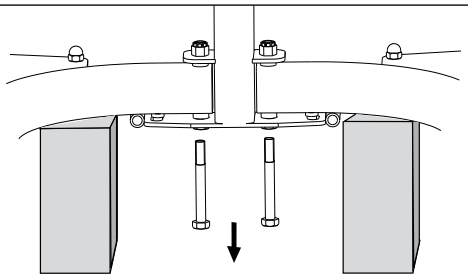
Remove plastic cover (Uno) / Foot plate (Sabina).

2.



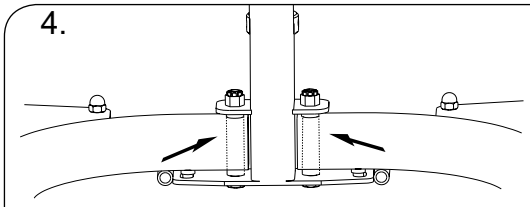
Remove split pin of the bolt to be replaced.

3.



Dismount and dispose the pin bolt.

4.

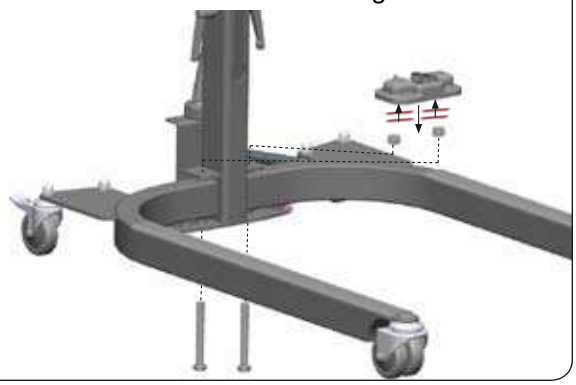


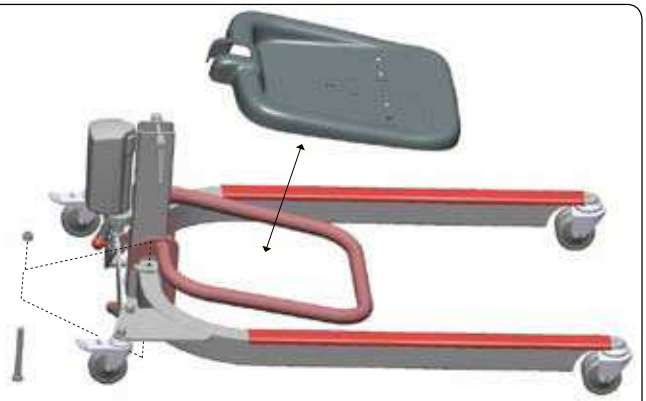
Mount the new bolt together with new split pin.

Uno 100 from S/N: 7092716
Uno 102 from S/N: 41551

Sabina EM/EE from S/N: 406485
Sabina II EM/EE from S/N: 413260

△ Lubricate new screw with PTFE-grease





Tightening torque 17Nm ± 2Nm.

△ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Assembly Instruction
Monteringsanvisning

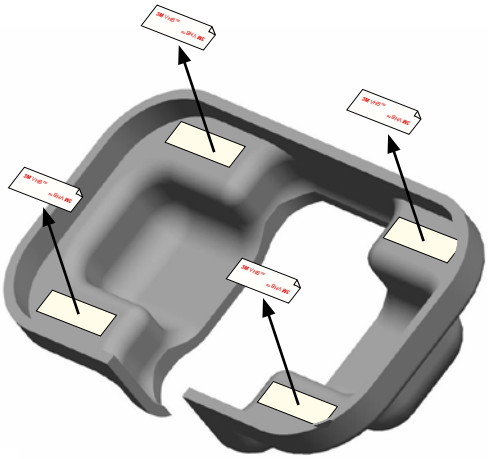
Prod no: 20190058

3SE640261-02
2009-06-24

Contains:	**Qty:**
Center Cap	1

Fits:
Uno 100EM, EE
Uno 102EM, EE, ES

1.



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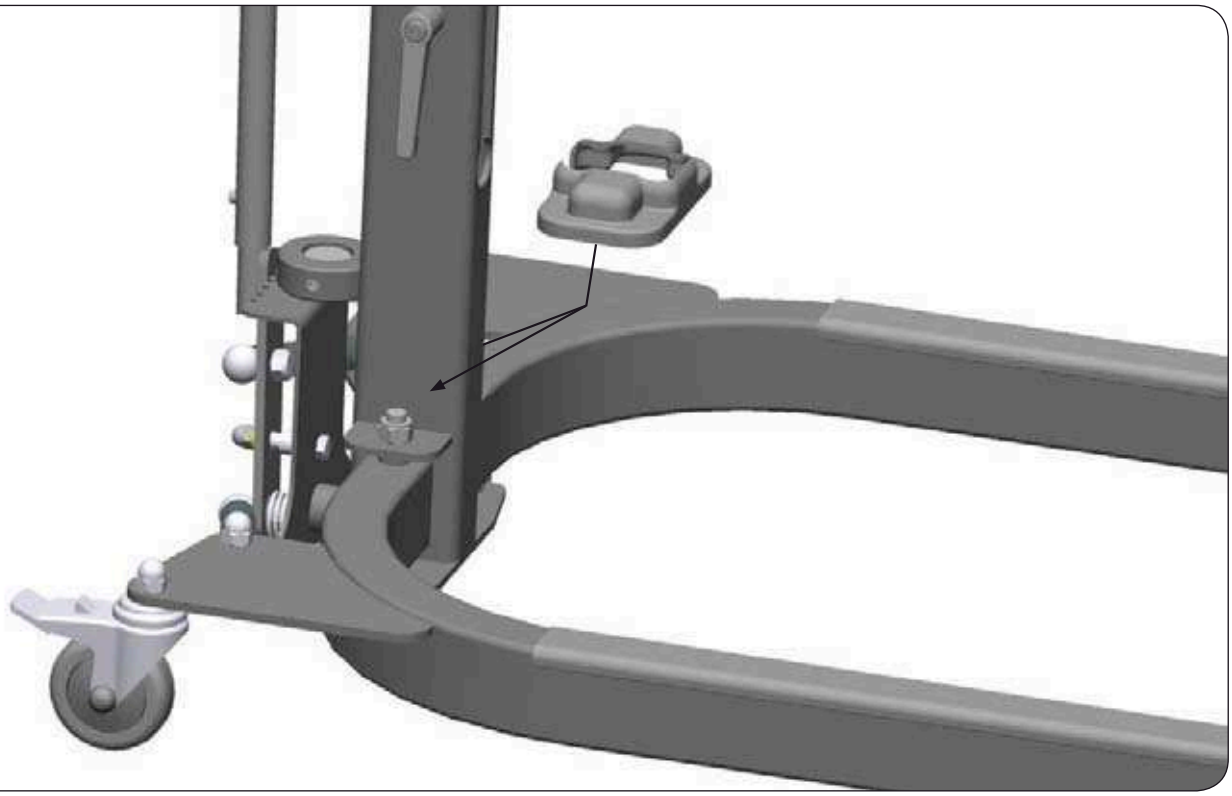


⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Outer Tube LA32, 310mm
Skyddsrör LA32, 310mm

Assembly Instruction
Monteringsanvisning

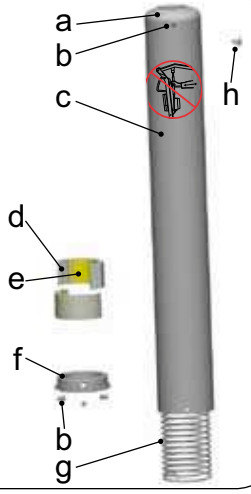
Prod. No. 20390017

3SE650237-01
2008-11-26

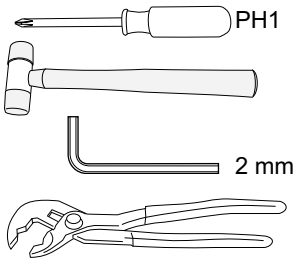
Contains:

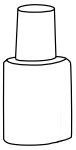
		pce
a	Top cover	1
b	Screw P6SS M4x5	6
c	Tube	1
d	Snap bushing	2
e	Two sided adhesive	2
f	Bushing	1
g	Compression spring	1
h	Screw 2,9x9,5	1

Fits: **Uno 100, Uno 102**
LikoLight
Viking S, Viking XS



Tools required:
Isopropyl alcohol and water + rag

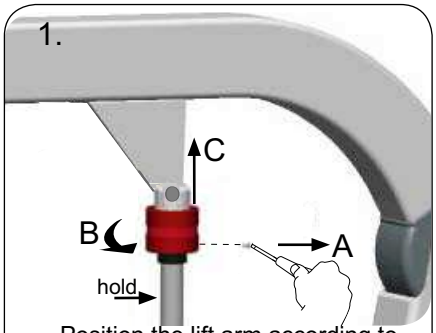




31590015
Seal colour
Emergency
lowering

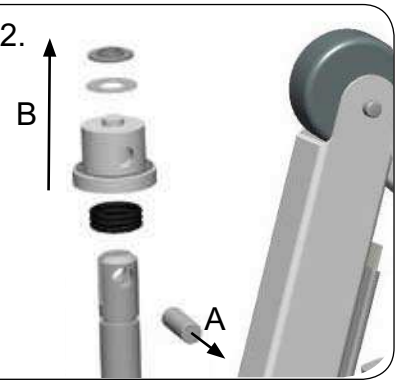
The motor attachments can be different than the pictures shows!

1.

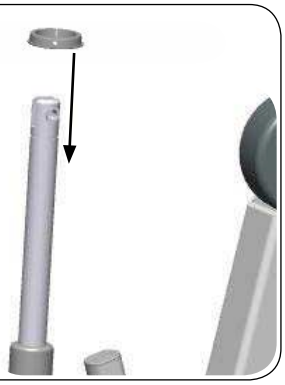


Position the lift arm according to the picture.

2.



3.



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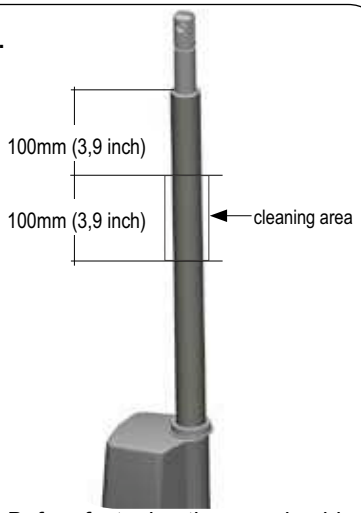
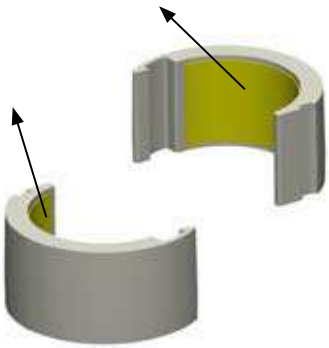


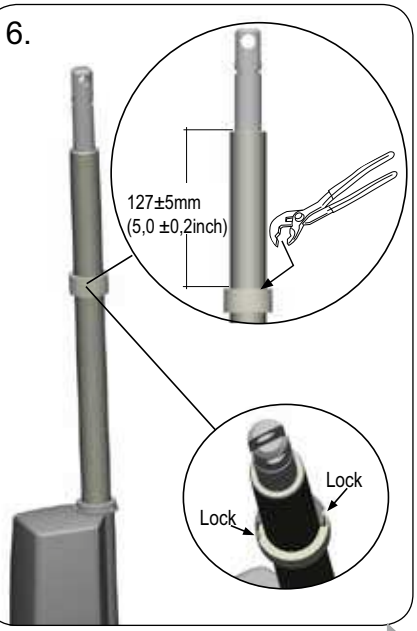
Before fastening the snap bushing
Clean marked area with 50/50
Isopropyl alcohol and water.

5.



Remove the tape cover!

6.



Liko
A Hill-Rom Company

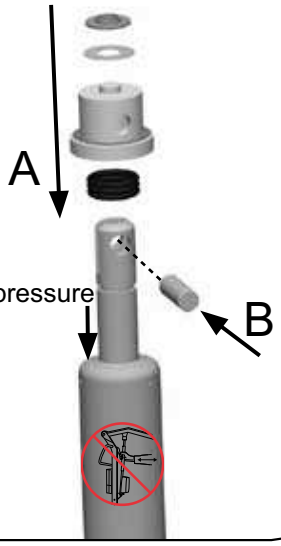
Outer Tube LA32, 310mm
Skyddsrör LA32, 310mm

Assembly Instruction
Monteringsanvisning

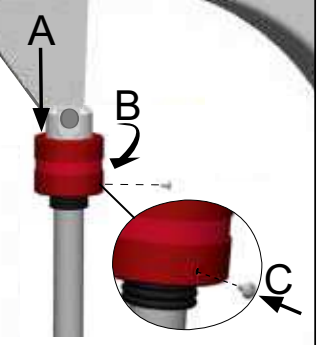
7.

8.

9.



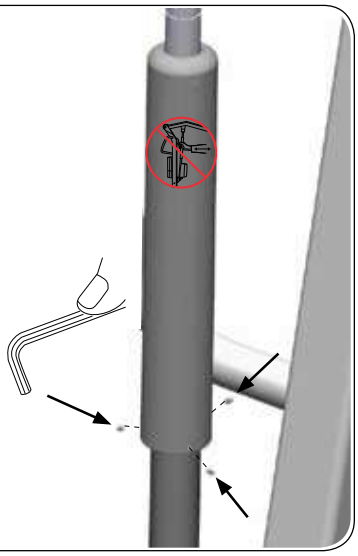
10.



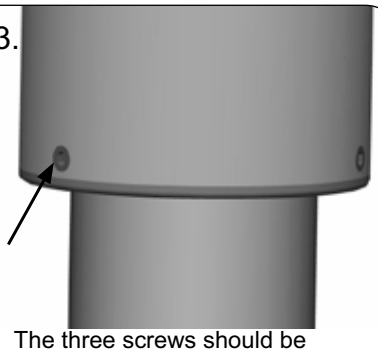
With attached screw 2,9x9,5, use center drilled holes both in red twist casing and in butt piston housing.

11.

12.



13.



The three screws should be tightened until flush with surface of tube.
Make sure the Outer Tube easy slides up and down.

14.

Seal screw with 31590015
Seal colour Emergency lowering

△ NOTE

- Make sure the spare part is mounted according to the assembly instruction
- Check all functions.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Liftarm Plastic Cover
Pelarkåpa, sats

Assembly Instruction
Monteringsanvisning

Prod. No. 20190068

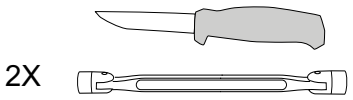
3SE650239-01
2009-03-02

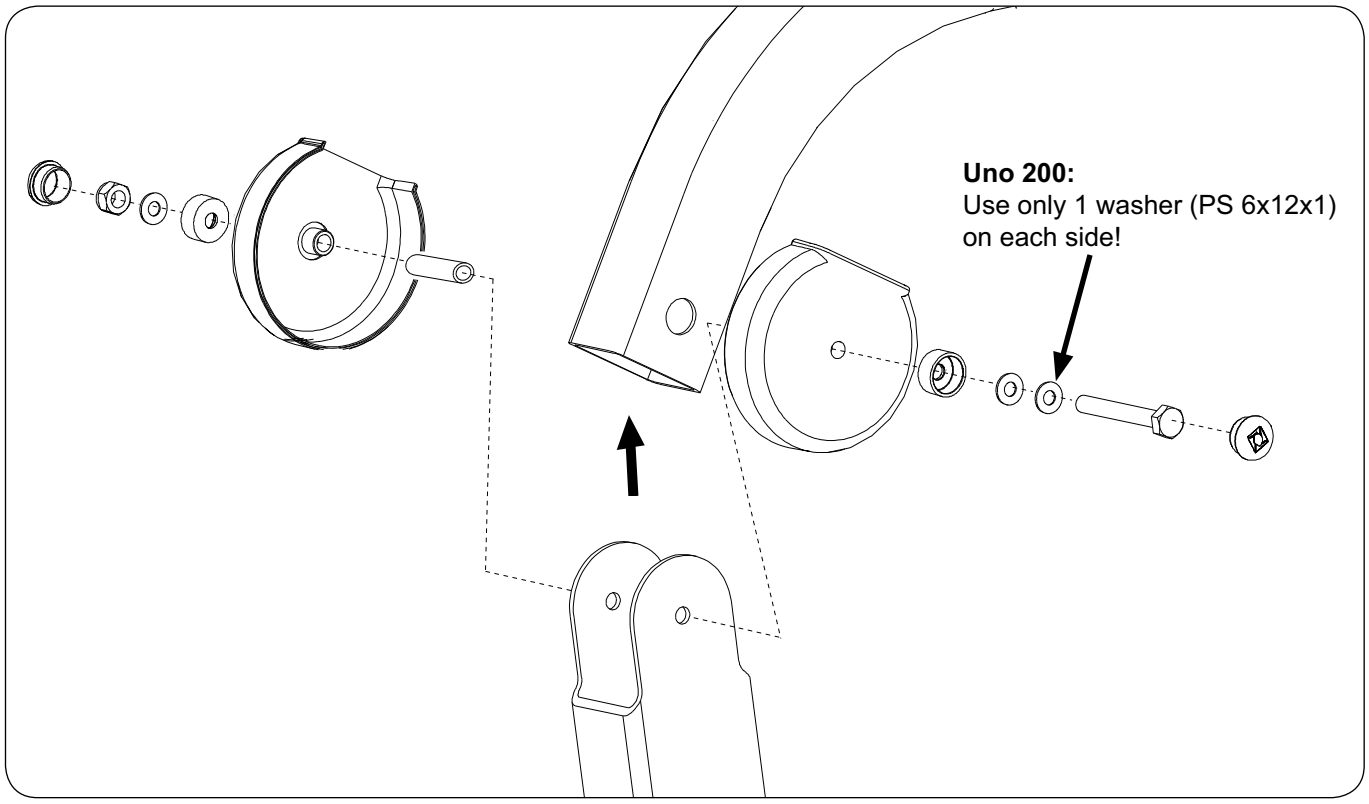
Contains:

Plastic cover	2	
Cover hat Liko	2	
Cover hat Liko bottom	2	
Sleeve bearing Mob.53	1	
Locking nut M6 Nyloc	1	
Washer PS 6x12x1	3	(use only 2 at Uno 200)
Screw M6S M6x65	1	

Fits:
Uno 100 EE, EM, ES
Uno 102 EE, EM, ES
Uno 200

Tools required





NOTE
Make sure the spare part is mounted according to the assembly instruction.
Check all functions.
Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

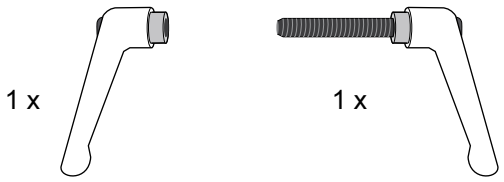
Liko
A Hill-Rom Company

Assembly Instruction
Monteringsanvisning

Prod. No. 2107101

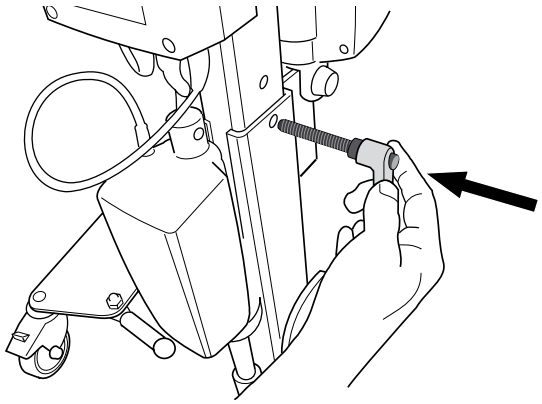
3SE650248-01
2009-09-25

Contains:

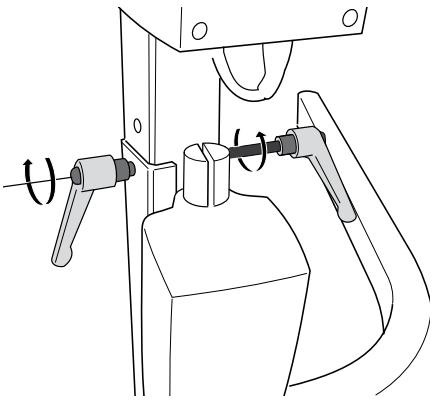


Fits:
Uno 100 (all models)
Uno 102 (all models)
Sabina (all models)
Viking (all models)
Caroli
Capella

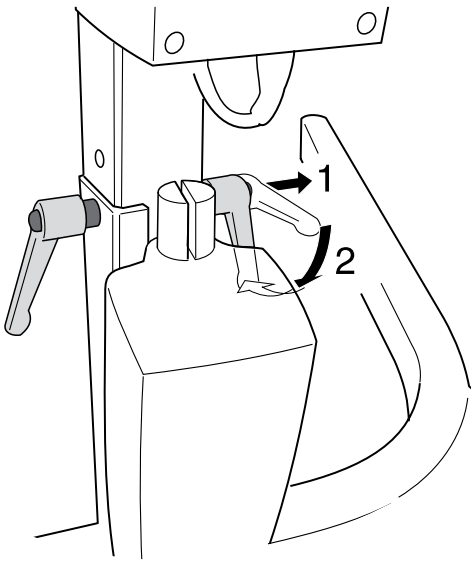
1.



2.



3.



5.385.1

Overhead beam Restoration Set
Renoveringssats Lyftarm

Assembly Instruction
Monteringsanvisning

Prod. No. 20190069

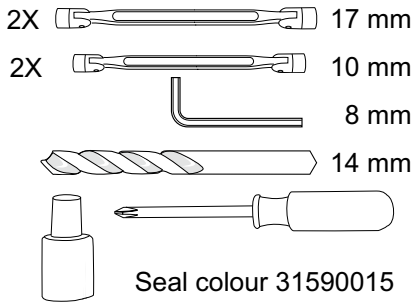
3SE650240-02
2009-05-04

Contains:

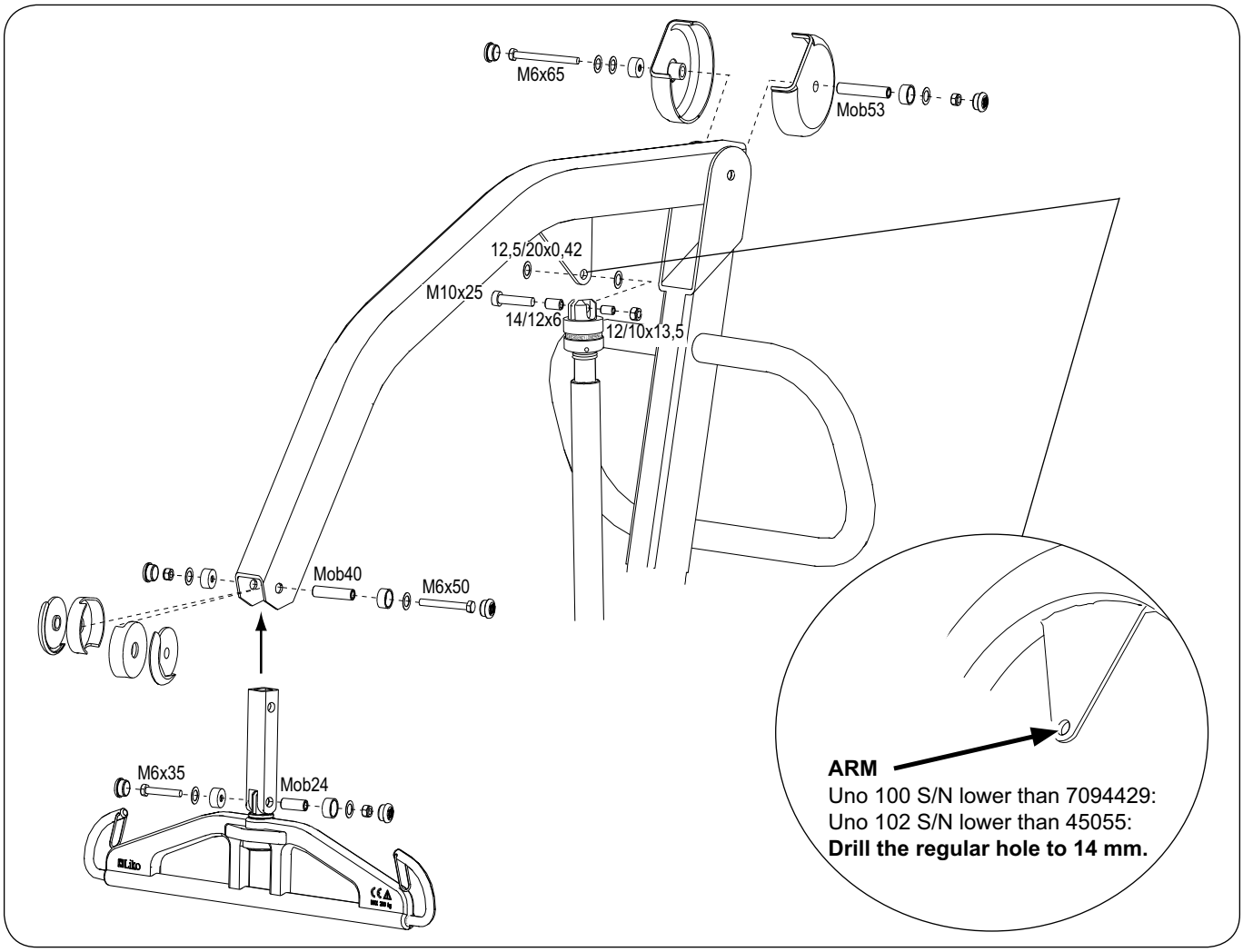
Bearing 12/14x6	1
Washer 12,5/20x0,42	2
Cover hat Liko	6
Cover hat Liko bottom	6
Sleeve bearing Mob.24	1
Sleeve bearing Mob.40	1
Sleeve bearing Mob.53	1
Plastic cover mast	2
Casing em. lowering	1
Lift arm insert set U102	1
Locking nut M10 nyloc	1
Screw MC6S M10x25	1
Locking nut M6 Nyloc	3
Screw M6S M6x50	1
Screw M6S M6x35	1
Screw M6S M6x65	1
Washer PS 6x12x1	7

Fits: Uno 100/102 EE, EM, ES

Tools required



Seal colour 31590015

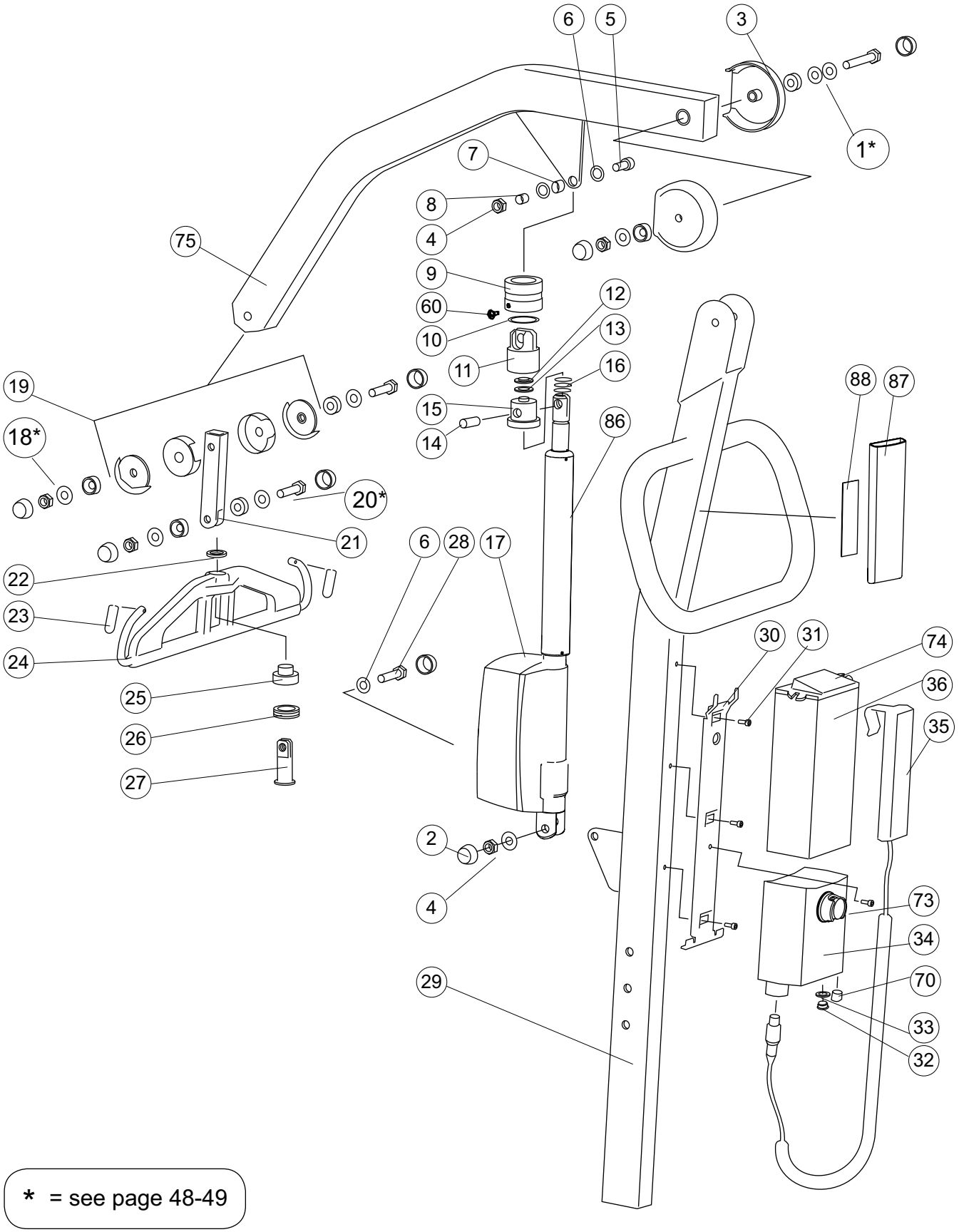


NOTE

Make sure the spare part is mounted according to the assembly instruction. Check all functions.
Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

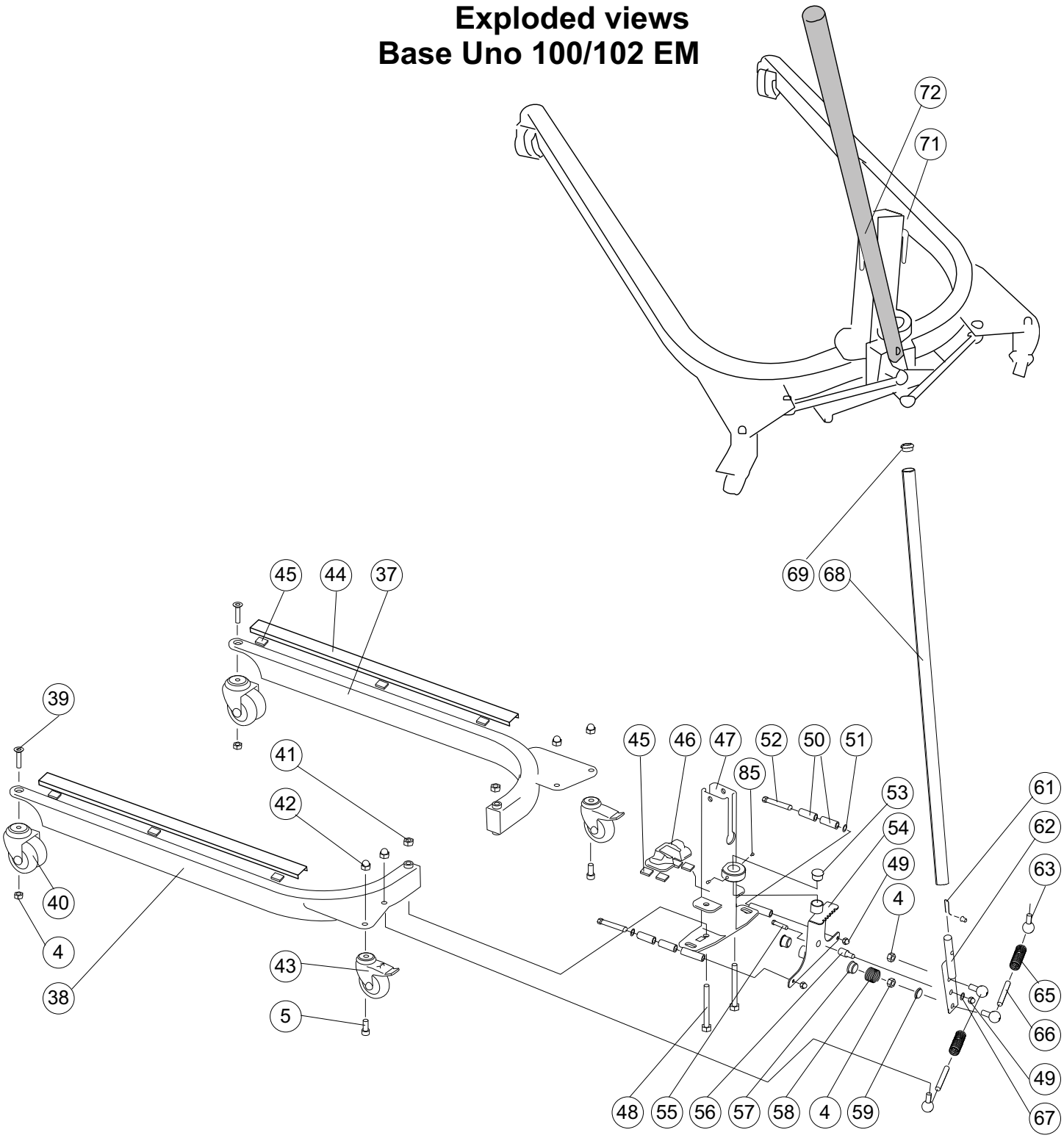
Mast Uno 100/102 EM, EE, ES

Exploded views



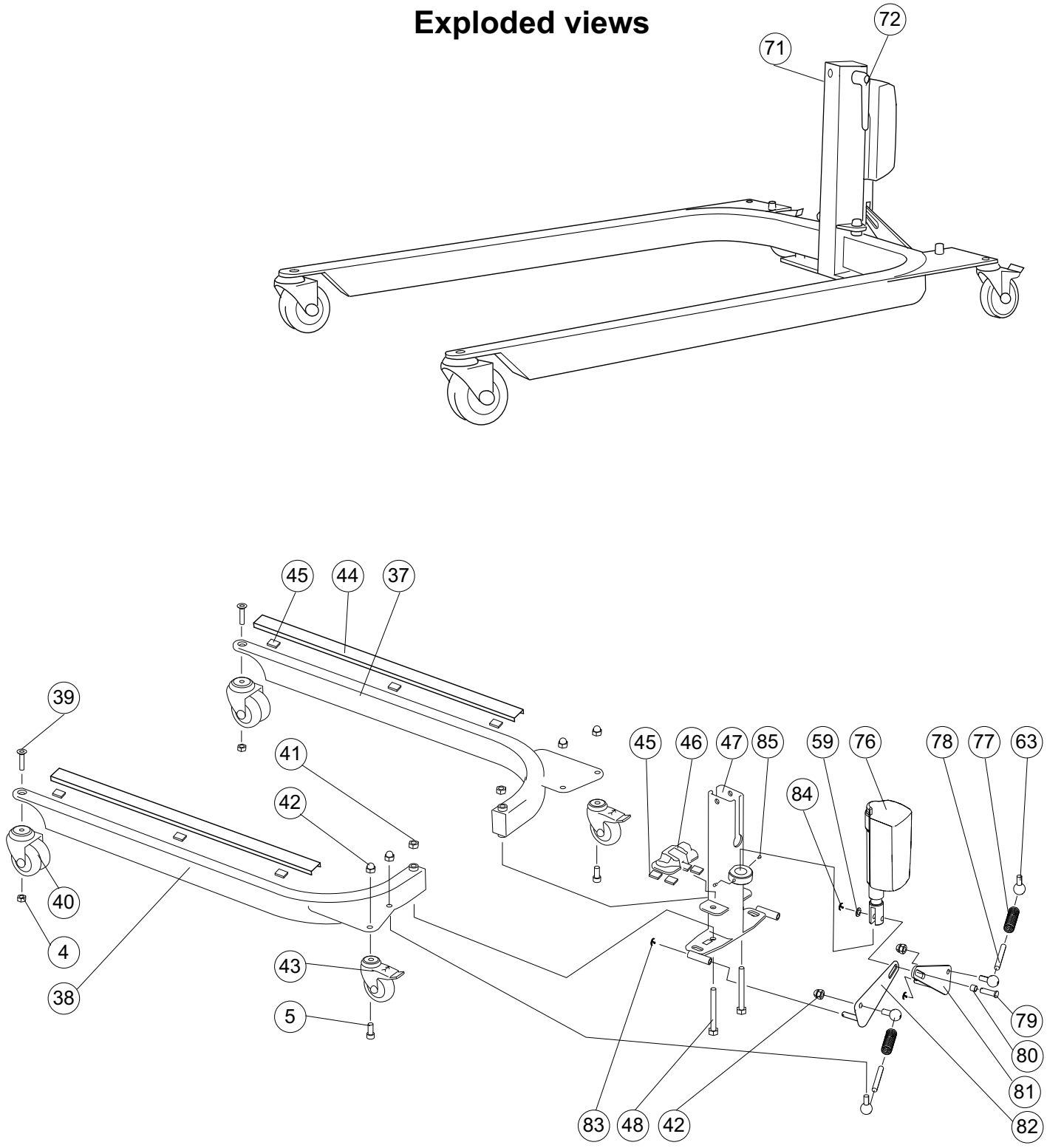
* = see page 48-49

Exploded views
Base Uno 100/102 EM



Base Uno 100/102 EE, ES

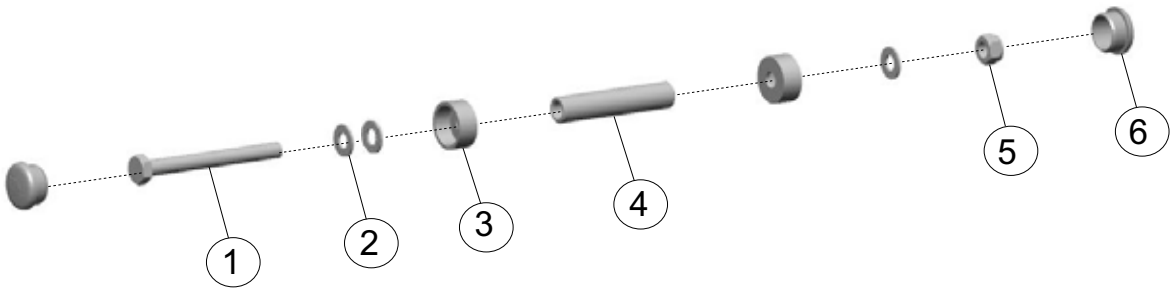
Exploded views



Exploded views

Position 1 (page 45)

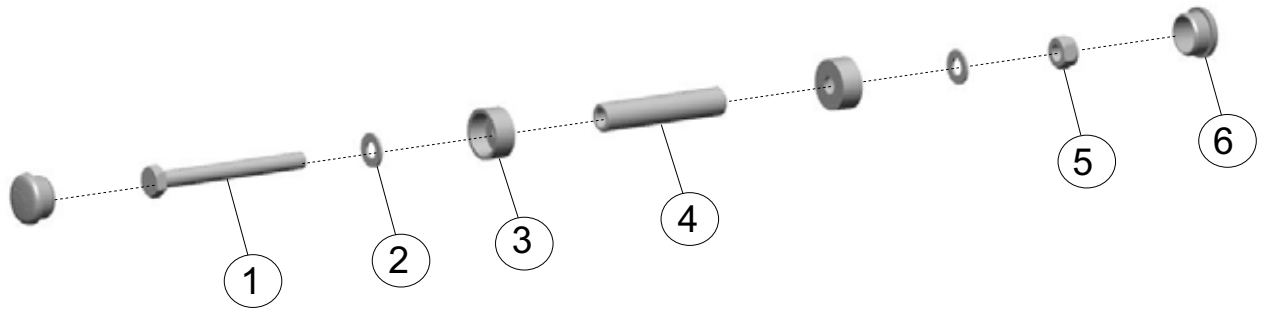
Sleeve bearing 52



1	930000525	Screw M6S M6x65	1	st
2	930000570	Washer TBRB 6x12x1	3	st
3	901350312	Cover hat Liko bottom	2	st
4	901504209	Sleeve bearing Mob.52	1	st
5	930000117	Lock nut M6 Nyloc	1	st
6	901350311	Cover hat Liko	2	st

Position 18 (page 45)

Sleeve bearing 40

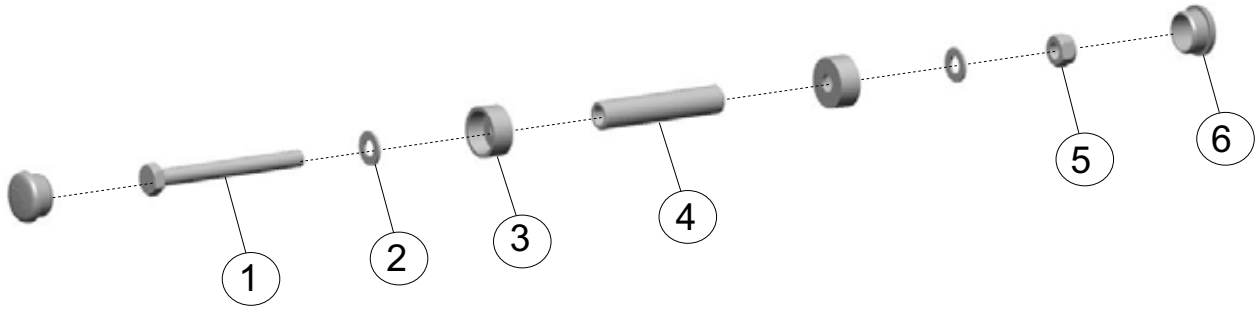


1	930000519	Screw M6S M6x50	1	st
2	930000570	Washer TBRB 6x12x1	2	st
3	901350312	Cover hat Liko bottom	2	st
4	901504206	Sleeve bearing Mob.40	1	st
5	930000117	Lock nut M6 Nyloc	1	st
6	901350311	Cover hat Liko	2	st

Exploded views

Position 20 (page 45)

Sleeve bearing 24



1	930000524	Screw M6S M6x35	1	st
2	930000570	Washer TBRB 6x12x1	2	st
3	901350312	Cover hat Liko bottom	2	st
4	901504201	Sleeve bearing Mob.24	1	st
5	930000117	Lock nut M6 Nyloc	1	st
6	901350311	Cover hat Liko	2	st

Components

Uno 102 EM

Product No. 2010003

Pos. No.	Article No.	Name	Quantity
1	*see page 48*	*Sleeve bearing 52*	1
2	900000043	Cover hat M10 grey U102	2
3	901969003	Plastic cover mast	2
4	930000010	Locking nut M10	6
5	930000039	Screw MC6S M10x25	3
6	900001372	Washer plastic 12,5/20x0,42	2
7	900000999	Bearing 12/14x6	1
8	901969077	Casing Emergency lowering	1
9	901072201	Twist casing	1
10	920000500	Washer PTFE Emergency lowering U102	1
11	901072203	Mounting bush	1
12	901979010	Bushing Emergency lowering	1
13	901979011	Shim Emergency lowering Uno 28x13x0,42	1
14	931072204	Bolt 12x34 Emergency lowering Uno	1
15	901072302	Butt piston housing	1
16	900000800	O-ring 20,22x3,53 U102	3
17	940000021	Actuator KSM 350 gray	1
18	*see page 48*	*Sleeve bearing 40*	1
19	901979002	Lift arm insert set U102	1 set
20	*see page 49*	*Sleeve bearing 24*	1
21	901979004	Link alu. U102	1
22	901003526	Stop ring	1
23	900000177	Safety Latch	2
24	901891210	Body Sling bar	1
25	901495317	Cover bearing	1
26	920000178	Axial bearing 51104 Lb	1
27	901953162	Sling bar bolt	1
28	931032832	Screw M6S M10x50	1
29	901490685	Mast U102 E	1
30	900000001	Attachment control box	1
31	930000390	Screw MRT-GF M5x16	3
32	900000444	Plug for hole CB12/14 grey	1
33	900000445	O-ring set for CB12/14	1
34	950000025	Control box EM,EE	1
35	950000049	Hand control EM	1
36	950000044	Battery box	1
37	9019012EH	Leg U102 E right	1
38	9019012EV	Ben U102 E left	1
39	930000006	Screw F6S M10x40	2
40	910000002	Front wheel 75mm	2

Components

Uno 102 EM

Product No. 2010003

Pos. No.	Article No.	Name	Quantity
41	930000056	Nut M12	2
42	930000008	Domed locking nut M10	4
43	910000003	Rear wheel 75mm	2
44	900000111	Leg protection Uno L=850	1
45	900000113	Tape 19x30 Uno	7
46	901790072	Center hood	1
47	901490703	Center Uno 102 E	1
48	930000012	Screw M6S M12x105	2
49	930000014	Domed locking nut M8	3
50	900000037	Spacer 8x12x30 U102EM	4
51	930000003	Spacer 05x8x18x5	2
52	930000030	Screw M6S M8x75	2
53	900000002	Plastic cover IKP 30 26 G	2
54	901969085	Mounting plate	1
55	930000022	Screw M6S M8x50	1
56	901969082	Center casing U102 EM	1
57	900000007	Plastic cover IKPT 2528G	1
58	900000008	Pressure spring 3x25x30	1
59	930000075	Washer NB 10x25x1,5	1
60	930000503	Screw 2,9x9,5	1
61	930000021	Pin with snapping	1
62	901969083	Turnable plate U102EM	1
63	930000004	Ball coupling M10	4
65	900001028	Plastic tube	2x0,16m
66	930000354	Screw PSH M10x165	2
67	930000023	Washer TBRB 8,4/16x3	1
68	901969084	Uno EM handle	1
69	900000004	Plastic cover IK 22 19 G	1
70	900000292	Top cover IKPT 12 15 G	1
71	930000493	Lever M10 grey	1
72	930000495	Lever M10x60 grey	1
73	901535091	Emergency guard	1
74	900000324	Holder for charging cable	1
75	901490695	Arm U102 E	1
85	930000566	Screw SK6SS M8x10	2
86	20390017	Outer Tube LA32, 310mm	1
87	901635011	Holder RO	1
88	900002184	Tape 40x100 t=0.8	1

Components

Uno 102 EE

Product No. 2010004

Pos. No.	Article No.	Name	Quantity
1	*see page 48*	*Sleeve bearing 52*	1
2	900000043	Cover hat M10 grey U102	2
3	901969003	Plastic cover mast	2
4	930000010	Locking nut M10	4
5	930000039	Screw M6S M12x105	3
6	900001372	Washer plastic 12,5/20x0,42	2
7	900000999	Bearing 12/14x6	1
8	901969077	Casing em. lowering	1
9	930000004	Twist casing	1
10	920000500	Washer PTFE em.lowering U102	1
11	901072203	Mounting bush	1
12	901979010	Bushing em. lowering	1
13	901979011	Shim em. lowering Uno 28x13x0,42	1
14	931072204	Bolt 12x34 Em.lowering Uno	1
15	901072302	Butt piston housing	1
16	900000800	O-ring 20,22x3,53 U102	3
17	940000021	Actuator KSM 350 gray	1
18	*see page 48*	*Sleeve bearing 40*	1
19	901979002	Lift arm insert set U102	1set
20	*see page 49*	*Sleeve bearing 24*	1
21	901979004	Link alu. U102	1
22	901003526	Stop ring	1
23	900000177	Safety Latch	2
24	901891210	Body Slingbar	1
25	901495317	Cover bearing	1
26	920000178	Axial bearing 51104 Lb	1
27	901953162	Slingbar bolt	1
28	931032832	Screw M6S M10x50	1
29	901490685	Mast U102 E	1
30	900000001	Attachment control box	1
31	930000390	Screw MRT-GF M5x16	3
34	950000025	Control box EM,EE	1
35	950000048	Handcontrol EE	1
36	950000044	Batterybox	1
37	9019012EH	Leg U102 E right	1
38	9019012EV	Ben U102 E left	1
39	930000006	Screw F6S M10x40	2
40	910000002	Front wheel 75mm	2
41	930000056	Nut M12	2
42	930000008	Domed locking nut M10	6

Components

Uno 102 EE

Product No. 2010004

Pos. No.	Article No.	Name	Quantity
43	910000003	Rear wheel 75mm	2
44	900000111	Leg protection Uno L=850	1
45	900000113	Tape 19x30 Uno	7
46	901790072	Center hood	1
47	901490703	Center Uno 102 E	1
48	930000012	Screw M6S M12x105	2
59	930000019	Washer NB 10x25x1,5	1
60	930000503	Screw 2,9x9,5	1
63	900000435	Ball coupling M10	2
70	900000292	Top cover IKPT 12 15 G	1
71	930000493	Lever M10 grey	1
72	930000495	Lever M10x60 grey	1
73	901535091	Emergency guard	1
74	900000324	Holder for charging cable	1
75	901490695	Arm U102 E	1
76	940000001G	Actuator LA28 grey U102	1
77	900000051	Cover tube (black)	2x0,06m
78	930000289	PSH M10x40	1
79	930000011	Cylindric bolt HCB 10x35	1
80	920000019	Bearing 103-10-12 Uno	1
81	90129052H	Jointed arm right	1
82	90129052V	Jointed arm left	1
83	930000013	Split Pin SP 3,2x20	2
84	930000017	Split Pin SP 2,5x16	1
85	930000566	Screw SK6SS M8x10	2
86	20390017	Outer Tube LA32	1
87	901635011	Holder RO	1
88	900002184	Tape 40x100 t=0.8	1

Components

Uno 102 ES

Product No. 2010005

Pos. No.	Article No.	Name	Quantity
1	*see page 48*	*Sleeve bearing 52*	1
2	900000043	Cover hat M10 grey U102	2
3	901969003	Plastic cover mast	2
4	930000010	Locking nut M10	4
5	930000039	Screw M6S M12x105	3
6	900001372	Washer plastic 12,5/20x0,42	2
7	900000999	Bearing 12/14x6	1
8	901969077	Casing em. lowering	1
9	901072201	Twist casing	1
10	920000500	Washer PTFE emergency lowering U102	1
11	901072203	Mounting bush	1
12	901979010	Bushing em. lowering	1
13	901979011	Shim emergency lowering Uno 28x13x0,42	1
14	931072204	Bolt 12x34 emergency lowering Uno	1
15	901072302	Butt piston housing	1
16	900000800	O-ring 20,22x3,53 U102	3
17	940000021	Actuator KSM 350 gray	1
18	*see page 48*	*Sleeve bearing 40*	1
19	901979002	Lift arm insert set U102	1 set
20	*see page 59*	*Sleeve bearing 24*	1
21	901979004	Link alu. U102	1
22	901003526	Stop ring	1
23	900000177	Safety Latch	2
24	901891210	Body Sling bar	1
25	901495317	Cover bearing	1
26	920000178	Axial bearing 51104 Lb	1
27	901953162	Slingbar bolt	1
28	931032832	Screw M6S M10x50	1
29	901490685	Mast U102 E	1
30	900000001	Attachment control box	1
31	930000390	Screw MRT-GF M5x16	3
34	950000026	Control box EM,EE	1
35	950000047	Hand control EE	1
36	950000044	Battery box	1
37	9019012EH	Leg U102 E right	1
38	9019012EV	Ben U102 E left	1
39	930000006	Screw F6S M10x40	2
40	910000002	Front wheel 75mm	2
41	930000056	Nut M12	2
42	930000008	Domed locking nut M10	6

Components

Uno 102 ES

Product No. 2010005

Pos. No.	Article No.	Name	Quantity
43	910000003	Rear wheel 75mm	2
44	900000111	Leg protection Uno L=850	1
45	900000113	Tape 19x30 Uno	7
46	901790072	Center hood	1
47	901490703	Center Uno 102 E	1
48	930000012	Screw M6S M12x105	2
59	930000019	Washer NB 10x25x1,5	1
60	930000503	Screw 2,9x9,5	1
63	930000004	Ball coupling M10	2
70	900000292	Top cover IKPT 12 15 G	1
71	930000493	Lever M10 grey	1
72	930000495	Lever M10x60 grey	1
73	901535091	Emergency guard	1
74	900000324	Holder for charging cable	1
75	901490695	Arm U102 E	1
76	940000001G	Actuator LA28 gr´å U102	1
77	900000051	Cover tube (black)	2x0,06m
78	930000289	PSH M10x40	1
79	930000011	Cylindric bolt HCB 10x35	1
80	920000019	Bearing 103-10-12 Uno	1
81	90129052H	Jointed arm right	1
82	90129052V	Jointed arm left	1
83	930000013	Split Pin SP 3,2x20	2
84	930000017	Split Pin SP 2,5x16	1
85	930000566	Screw SK6SS M8x10	2
86	20390017	Outer Tube LA32	1
87	901635011	Holder RO	1
88	900002184	Tape 40x100 t=0.8	1

Components

Uno 100 EM Product No. 2010012

Pos. No.	Article No.	Name	Quantity
1	*see page 48*	*Sleeve bearing 52*	1
2	900000043	Cover hat M10 grey U102	2
3	901969003	Plastic cover mast	2
4	930000010	Locking nut M10	6
5	930000039	Screw MC6S M10x25	3
6	900001372	Washer plastic 12,5/20x0,42	2
7	900000999	Bearing 12/14x6	1
8	901969077	Casing emergency lowering	1
9	901072201	Twist casing	1
10	920000500	Washer PTFE emergency lowering U102	1
11	901072203	Mounting bush	1
12	901979010	Bushing emergency lowering	1
13	901979011	Shim emergency lowering Uno 28x13x0,42	1
14	931072204	Bolt 12x34 emergency lowering Uno	1
15	901072302	Butt piston housing	1
16	900000800	O-ring 20,22x3,53 U102	3
17	940000021	Actuator KSM 350 gray	1
18	*see page 48*	*Sleeve bearing 40*	1
19	901979002	Lift arm insert set U102	1set
20	*see page 59*	*Sleeve bearing 24*	1
21	901979004	Link alu. U102	1
22	901003526	Stop ring	1
23	900000177	Safety Latch	2
24	901891210	Body Sling bar	1
25	901495317	Cover bearing	1
26	920000178	Axial bearing 51104 Lb	1
27	901953162	Sling bar bolt	1
28	931032832	Screw M6S M10x50	1
29	901790093	Mast U1	1
30	900000001	Attachment control box	1
31	930000390	Screw MRT-GF M5x16	3
32	900000444	Plug for hole CB12/14 grey	1
33	900000445	O-ring set for CB12/14	1
34	950000025	Control box EM,EE	1
35	950000049	Hand control EM	1
36	950000044	Battery box	1
37	90179103H	Leg Sabina / Uno100 right	1
38	90179103V	Leg Sabina / Uno100 left	1
39	930000006	Screw F6S M10x40	2
40	910000002	Front wheel 75mm	2
41	930000056	Nut M12	2

Components

Uno 100 EM

Product No. 2010012

Pos. No.	Article No.	Name	Quantity
42	930000008	Domed locking nut M10	4
43	910000003	Rear wheel 75mm	2
44	900000285	Leg protection Uno L=850	1
45	900000113	Tape 19x30 Uno	7
46	901790072	Center hood	1
47	901791023	Center Sa / U1	1
48	930000012	Screw M6S M12x105	2
49	930000014	Domed locking nut M8	3
50	900000037	Spacer 8x12x30 U102EM	4
51	930000003	Spacer 05x8x18x5	2
52	930000030	Screw M6S M8x75	2
53	900000002	Plastic cover IKP 30 26 G	2
54	901969085	Mounting plate	1
55	930000022	Screw M6S M8x50	1
56	901969082	Center casing U102 EM	1
57	900000007	Plastic cover IKPT 2528G	1
58	900000008	Pressure spring 3x25x30	1
59	930000075	Washer NB 10x25x1,5	1
60	930000503	Screw 2,9x9,5	1
61	930000021	Pin with snapping	1
62	901969083	Turnable plate U102EM	1
63	930000004	Ball coupling M10	4
65	900001028	Plastic tube	2x0,16m
66	930000354	Screw PSH M10x165	2
67	930000023	Washer TBRB 8,4/16x3	1
68	901969084	Uno EM handle	1
69	900000004	Plastic cover IK 22 19 G	1
70	900000292	Top cover IKPT 12 15 G	1
71	930000493	Lever M10 grey	1
72	930000495	Lever M10x60 grey	1
73	901535091	Emergency guard	1
74	900000324	Holder for charging cable	1
75	901790053	Arm U1	1
85	930000566	Screw SK6SS M8x10	2
86	20390017	Outer Tube LA32	1
87	901635011	Holder RO	1
88	900002184	Tape 40x100 t=0.8	1

Components

Uno 100 EE

Product No. 2010011

Pos. No.	Article No.	Name	Quantity
1	*see page 48*	*Sleeve bearing 52*	1
2	900000043	Cover hat M10 grey U102	2
3	901969003	Plastic cover mast	2
4	930000010	Locking nut M10	4
5	930000039	Screw M6S M10x25	3
6	900001372	Washer plastic 12,5/20x0,42	2
7	900000999	Bearing 12/14x6	1
8	901969077	Casing emergency lowering	1
9	901072201	Twist casing	1
10	920000500	Washer PTFE emergency lowering U102	1
11	901072203	Mounting bush	1
12	901979010	Bushing emergency lowering	1
13	901979011	Shim emergency lowering Uno 28x13x0,42	1
14	931072204	Bolt 12x34 emergency lowering Uno	1
15	901072302	Butt piston housing	1
16	900000800	O-ring 20,22x3,53 U102	3
17	940000021	Actuator KSM 350 gray	1
18	*see page 48*	*Sleeve bearing 40*	1
19	901979002	Lift arm insert set U102	1 set
20	*see page 49*	*Sleeve bearing 24*	1
21	901979004	Link alu. U102	1
22	901003526	Stop ring	1
23	900000177	Safety Latch	2
24	901891210	Body Sling bar	1
25	901495317	Cover bearing	1
26	920000178	Axial bearing 51104 Lb	1
27	901953162	Sling bar bolt	1
28	931032832	Screw M6S M10x50	1
29	901790093	Mast U1	1
30	900000001	Attachment control box	1
31	930000390	Screw MRT-GF M5x16	3
34	950000025	Control box EM,EE	1
35	950000048	Hand control EE	1
36	950000044	Battery box	1
37	90179103H	Leg right Sabina/Uno 100	1
38	90179103V	Ben left Sabina/Uno 100	1
39	930000006	Screw F6S M10x40	2
40	910000002	Front wheel 75mm	2
41	930000056	Nut M12	2
42	930000008	Domed locking nut M10	6

Components

Uno 100 EE

Product No. 2010011

Pos. No.	Article No.	Name	Quantity
43	910000003	Rear wheel 75mm	2
44	900000285	Leg protection Sabina L=700	1
45	900000113	Tape 19x30 Uno	7
46	901790072	Center hood Uno	1
47	901791023	Center Sa / U1	1
48	930000012	Screw M6S M12x105	2
59	930000019	Washer NB 10x25x1,5	1
60	930000503	Screw 2,9x9,5	1
63	930000004	Ball coupling M10	2
70	900000292	Top cover IKPT 12 15 G	1
71	930000493	Lever M10 grey	1
72	930000495	Lever M10x60 grey	1
73	901535091	Emergency guard	1
74	900000324	Holder for charging cable	1
75	901790053	Arm U1	1
76	940000001G	Actuator LA28 grey U102	1
77	900000051	Cover tube (black)	2x0,06m
78	930000289	PSH M10x40	1
79	930000011	Cylindric bolt HCB 10x35	1
80	920000019	Bearing 103-10-12 Uno	1
81	90129052H	Jointed arm right	1
82	90129052V	Jointed arm left	1
83	930000013	Split Pin SP 3,2x20	2
84	930000017	Split Pin SP 2,5x16	1
85	930000566	Screw SK6SS M8x10	2
86	20390017	Outer Tube LA32	1
87	901635011	Holder RO	1
88	900002184	Tape 40x100 t=0.8	1

Decal Instruction
Dekalanvisning

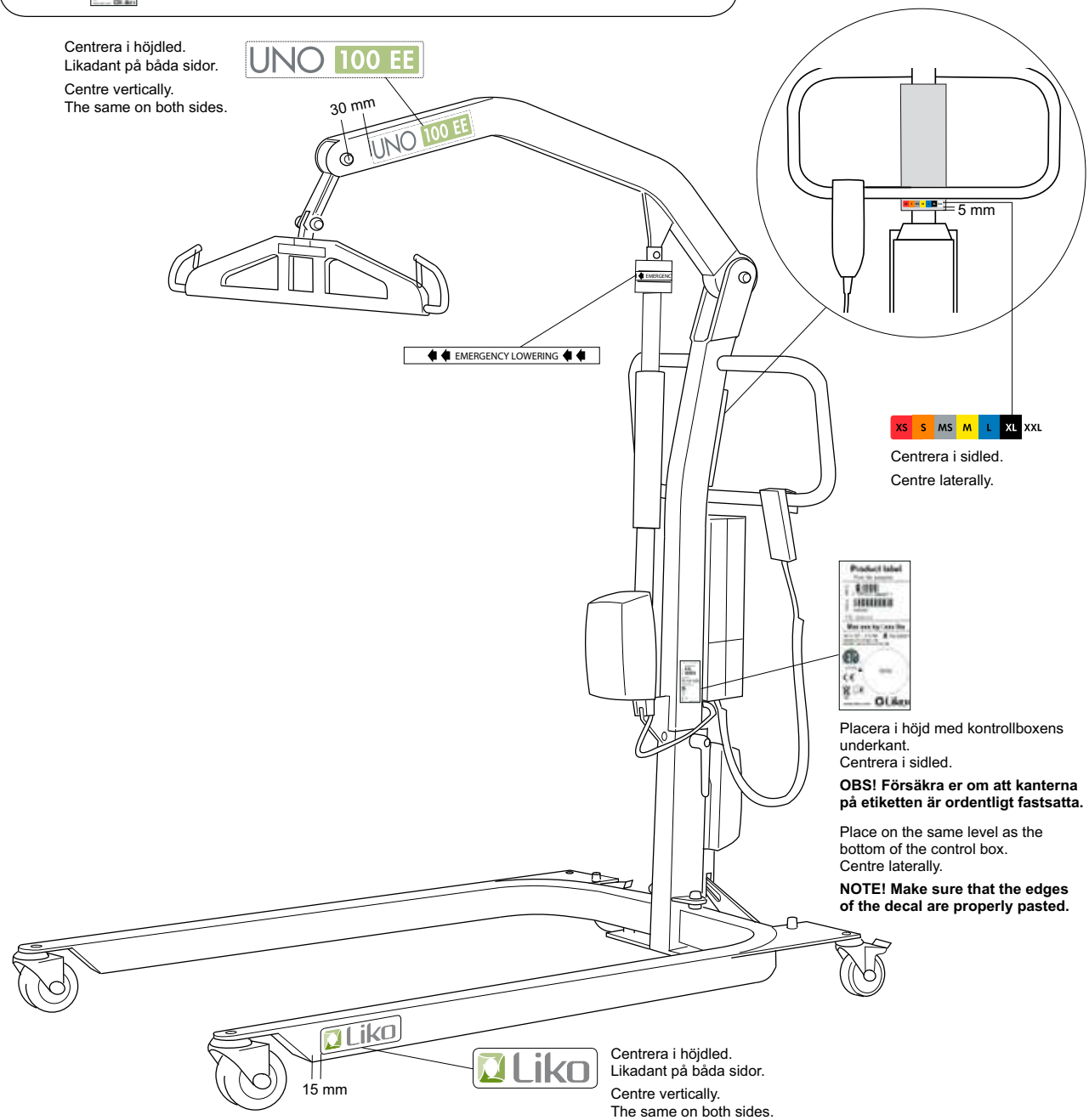
Prod. No. 2010011, 2010012

7SE150202-02
2008-02-20

2 x	Liko	Size/Storlek: 79 x 25 mm Prod. No./Art. nr. 900002231
1 x	XS S MS M L XL XXL	Size/Storlek: 70 x 11 mm Prod. No./Art. nr. 900002233
1 x	EMERGENCY LOWERING	Size/Storlek: 99 x 8 mm Prod. No./Art. nr. 900000054
2 x	UNO 100 EM	Size/Storlek: 155 x 30 mm Prod. No./Art. nr. 900002339
2 x	UNO 100 EE	Size/Storlek: 147 x 30 mm Prod. No./Art. nr. 900002340
1 x		Size/Storlek: 107 x 52 mm Prod. No./Art. nr. 900001457 Layout: layout_pe_sh01

Centrera i höjdled.
Likadant på båda sidor.

Centre vertically.
The same on both sides.



Centrera i sidled.

Centre laterally.

Placera i höjd med kontrollboxens underkant.
Centrera i sidled.

OBS! Försäkra er om att kanterna på etiketten är ordentligt fastsatta.

Place on the same level as the bottom of the control box.
Centre laterally.

NOTE! Make sure that the edges of the decal are properly pasted.

Centrera i höjdled.
Likadant på båda sidor.

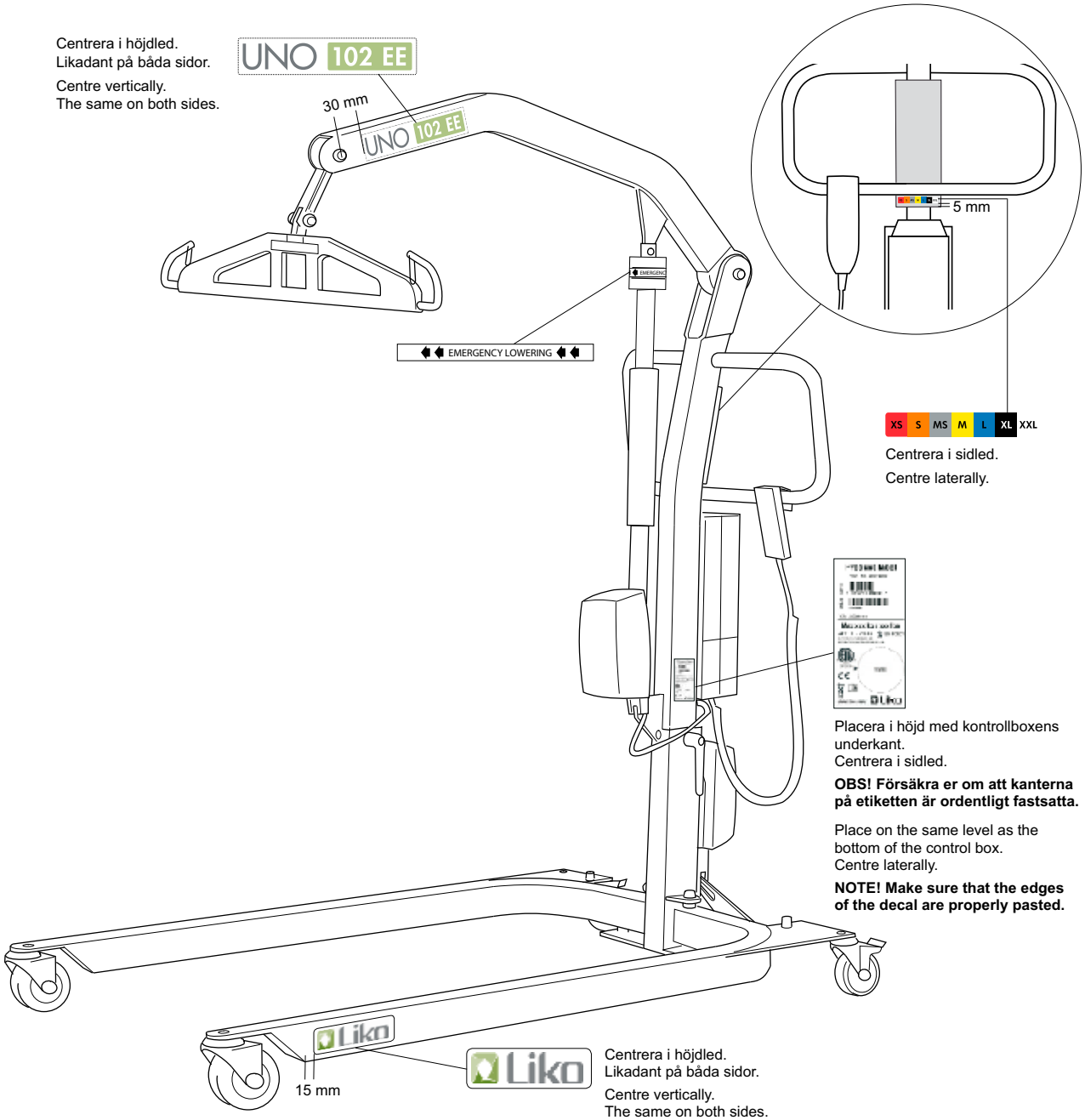
Centre vertically.
The same on both sides.

Decal Instruction
Dekalanvisning

Prod. No. 2010003, 2010004, 2010005

7SE150203-02
2008-02-20

2 x	Liko	Size/Storlek: 79 x 25 mm Prod. No./Art. nr. 900002231
1 x	XS S MS M L XL XXL	Size/Storlek: 70 x 11 mm Prod. No./Art. nr. 900002233
1 x	EMERGENCY LOWERING	Size/Storlek: 99 x 8 mm Prod. No./Art. nr. 900000054
2 x	UNO 102 ES	Size/Storlek: 147 x 30 mm Prod. No./Art. nr. 900002343
2 x	UNO 102 EE	Size/Storlek: 147 x 30 mm Prod. No./Art. nr. 900002342
2 x	UNO 102 EM	Size/Storlek: 155 x 30 mm Prod. No./Art. nr. 900002341
1 x		Size/Storlek: 107 x 52 mm Prod. No./Art. nr. 900001457 Layout: layout_pe_sh01



Liko
A Hill-Rom Company

Uno 100 EM,EE /Uno 102 EM, EE, ES

Periodic inspection

Prod. No. 2010003, 2010004, 2010005, 2010011, 2010012

2009-11-05

Customer Reference:

Lift type: .....
S/N: .....
Prod. Year: .....

Contract No: .....
Name: .....
Address: .....
(Zip Code) .....

The Lift must be thoroughly inspected at least once per year.
Inspection and service must be carried by Liko authorized personnel. Instructions for check points, from next page.

Check points:	Approved	To be actioned	Not approved	Comments:
Base				
1(a) General inspection	☐	☐	☐	.....
2 Type/model identification decal	☐	☐	☐	.....
3 Castor wheels	☐	☐	☐	.....
4 Castor brakes	☐	☐	☐	.....
5 Base pin bolt	☐	☐	☐	.....
6 Base opening and closing linkage	☐	☐	☐	.....
7 Base frame castor play & levelling	☐	☐	☐	.....
Mast				
1(b) General inspection	☐	☐	☐	.....
8 Locking handles	☐	☐	☐	.....
9 Lift arm hardware & covers	☐	☐	☐	.....
10 Flex link arm to mast	☐	☐	☐	.....
11 Flex link arm to sling bar	☐	☐	☐	.....
12 Sling bar	☐	☐	☐	.....
13 Mast actuator	☐	☐	☐	.....
14 Battery & electrical cable installations	☐	☐	☐	.....
15 Hand control	☐	☐	☐	.....
16 Emergency Stop function	☐	☐	☐	.....
17 Electrical emergency lowering	☐	☐	☐	.....
18 Charger function	☐	☐	☐	.....
Load testing				
19 Mast Maximum Load Test	☐	☐	☐	.....
20 Base Maximum Load Test	☐	☐	☐	.....
21 Mechanical Em. Lowering Load test	☐	☐	☐	.....
Documentation				
22 Instructions	☐	☐	☐	.....

Approval to use the patient lift ☐Approved ☐To be actioned ☐Not approved

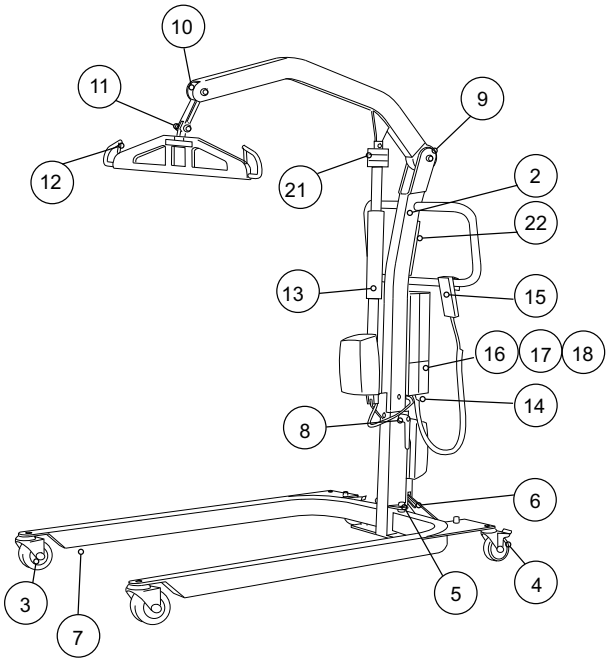
If the patient lift has one or more check points with result “Not approved” the system must not be used. If the system has one or more check points with result “To be actioned” these actions should be performed immediately. After performed actions sign below. If anything is unclear or if you have questions, please contact Liko or your local Liko representative. Contact information is to be found at www.liko.com.

Inspection performed by: _____ **Date:**_____ **Final approval by:**

Approval date:_____ **Next inspection:** _____

Inspection performed in accordance with ISO 10535:2006 Annex B- Periodic inspection

Instructions for the check points



1(a&b) General inspection
- Check for scratches, dents, deformities or unusual surface wear.

2 Type/model identification decal
- Verify presence of mast decal with model type and serial number.

3 Castor wheels
- Roll the lift, unloaded, along the floor, checking to ensure that all castors roll and turn freely.
- Verify that castor fasteners are tight.

4 Castor brakes
- Lock the brakes. Make sure the wheels do not turn and the castor housing does not swivel when the lift is pushed.

5 Base pin bolt
- Verify that the M12 x 105mm pin bolt is secured with a nyloc nut or cotter/split pin in welded castle nut.

6 Base opening and closing linkage

Manual Base EM:
- Inspect mounting plate teeth for wear
- Pull back on handle to check compression spring pressure. Turnable plate welding should secure in mounting plate teeth when the handle is released.
- Inspect linkage arms and ball coupling hardware
- Verify that manual handle opens and closes to maximum & min. dimensions.

Electrical Base EE:
- Check that the set screws (2) in center section collar are tight.
- Inspect Pivot Arms, (left and right) for scratches/gouges.
- Inspect linkage arms and ball coupling hardware.
- Verify maximum & min. dimensions.

7 Base frame castor play & levelling
- Roll the lift along a level floor surface and check to ensure that the distance between the wheels and the floor does not exceed 6 mm / 0.24 Inch.
- Manually open and close legs at the front casters to measure wheel play. Base width wheel play should not exceed 35 mm / 1.38 Inch total.

Instructions for the check points

8 Locking handles
- Loosen & retighten locking handles. Verify that threads are not damaged or binding.

9 Lift arm hardware & covers
- With the lift in it's lowest position, manually raise the lift arm/boom. Verify that the shaft lowers and raises freely. If the arm is binding, the mounting screw is too tight.
- Inspect the plastic protective cover shells for cracks, deformation or gaps.

10 Flexlink arm to mast
- With the sling bar hanging in it's lowest position, manually raise the sling bar and flexlink arm.
- Verify that the flexlink arm lowers and raises freely. If the flexlink is binding, the screw is too tight.
- Inspect the plastic protective cover shells for cracks, deformation or gaps.

11 Flexlink arm to sling bar
- With the sling bar hanging in it's lowest position, manually pivot the sling bar side-to-side. Verify that the flexlink arm lowers and raises freely. If the flex link is binding, the mounting screw is too tight.
- Verify that hardware covering plastic caps are secure.

12 Sling bar
- Inspect visually to ensure that the sling bar is free from any scratches, sharp edges or deformities.
- Verify that the o-ring is present and positioned in the center bolt groove.
- Check that the unit rotates freely on its bearings. Wipe of any dirt, dust or residue.
- Make sure that both safety latch clips are mounted and fall back against the body of the sling bar.

13 Mast actuator
- Verify that the upper and lower actuator fasteners to the mast are tight.
- Check that the locking screws on the emergency lowering device are countersunk; screw heads must not protrude.
- Verify that the lift is equipped with an Outer tube
- Pull the Outer Tube to the top and bottom (with the lift arm in its highest position).
- Make sure the Outer Tube not get stuck in any position.
- Verify that the Outer Tube has no cracks, deformation or gaps.

14 Battery & electrical cable installations
- Verify battery charge (recharge battery or test w/Prod. No 2101100).
- Inspect that all cords are in the proper receptacles of the control box
  hand control (large DIN receptacle), mast actuator (middle receptacle, port #1),
  base motor (end receptacle, port #2), extension cord (in front two pin connector) connected to the charging cable.
- Verify that all cables are properly inserted. Re-insert if uncertain.

15 Hand control
- With the emergency stop out, verify that all functions on the hand control are working.

16 Emergency Stop function
- Press in the emergency stop button. With the emergency stop pressed in, verify that the lift does not operate with the hand control buttons.
- Next, turn the red emergency button in the direction of the arrows (clockwise). Verify that the button releases from the locked position into the raised, open position.

17 Electrical emergency lowering device
- With the emergency stop out, verify the functions of the electrical emergency-lowering device.

Instructions for the check points

18 Charger function

- With the emergency stop out, insert the charger cable into a power outlet (110-240V). The diode lights on the control unit should light up.

19 Mast Maximum Load Test

- Run the lift with maximum load all the way up and down:

Uno 100: 205 kg / 450 lbs (175 kg / 385 lbs to s/n 7092499)
Uno 102: 175 kg / 385lbs

- Listen for peculiar noises and vibrations.

20 Base Maximum Load Test

- Run the base in and out with maximum load:

Uno 100: 205 kg / 450 lbs (175 kg / 385 lbs to s/n 7092499)
Uno 102: 175 kg / 385lbs

- Listen for peculiar noises and vibrations.

21 Mechanical Emergency Lowering Load test

- Check to ensure that the mechanical emergency-lowering device functions with load:

Uno 100: 205 kg / 450 lbs (175 kg / 385 lbs to s/n 7092499)
Uno 102: 175 kg / 385lbs

- Manually turn the red actuator collar in the direction of the arrows(clockwise) to lower.

22 Instructions

- Instruction guide / Service Manual
- Quick Reference Guide shall be placed in the intended holder on the mast.

Liko
A Hill-Rom Company

Uno 100 /102 EM, EE, ES
Preventative Maintenance

2009-11-09

Lift type:	.....
Serial No:	.....
Version:	.....
Prod. Year:	.....

Customer Reference:

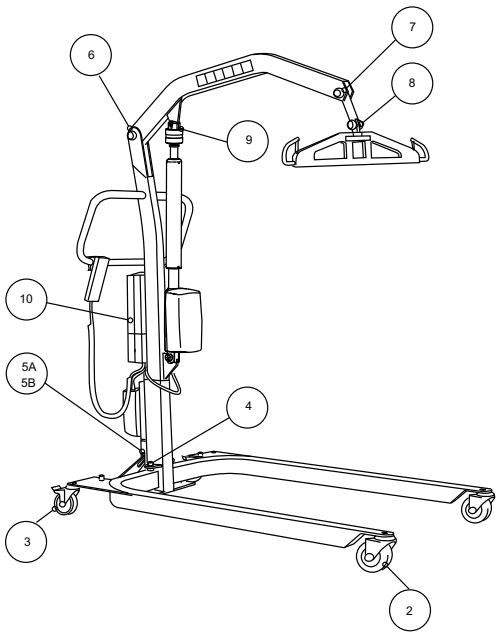
Contract No:	.....
Name:	.....
Address:	.....
(Zip Code)	.....

Check points:

Base	**Month**	12	24	36	48	60	72	84	96	108	120
☐ 1	Surface treatment	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
☐ 2	Front castor	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
☐ 3	Rear castor	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
☐ 4	Pin bolt lubrication	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
5	Actuator linkage										
☐	A: Electric base link arm lubrication	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
☐	B: Mechanical base, mounting plate inspection	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Mast											
☐ 1	Surface treatment	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
☐ 6	Lift arm	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
☐ 7	Flexlink	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
☐ 8	Slingbar	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
☐ 9	Emergency Lowering Device	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
☐ 10	Battery	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

When maintenance is performed; mark specified square with “X”
When part is replaced; mark specified square with “R”

Lubricate with PTFE or silicon grease



Date:_____

Interval/Month: _____

Serviced by: _____

Instructions regarding the check points for Uno 100/102 EM, EE, ES

1. Surface treatment

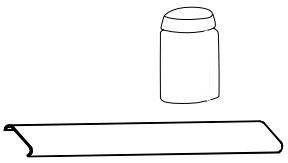
Lift type:	Serial No:	Prod. Year:	Contract No:

Month 12 24 36 48 60 72 84 96 108 120
Check: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Name:

Address:

(Zip Code)



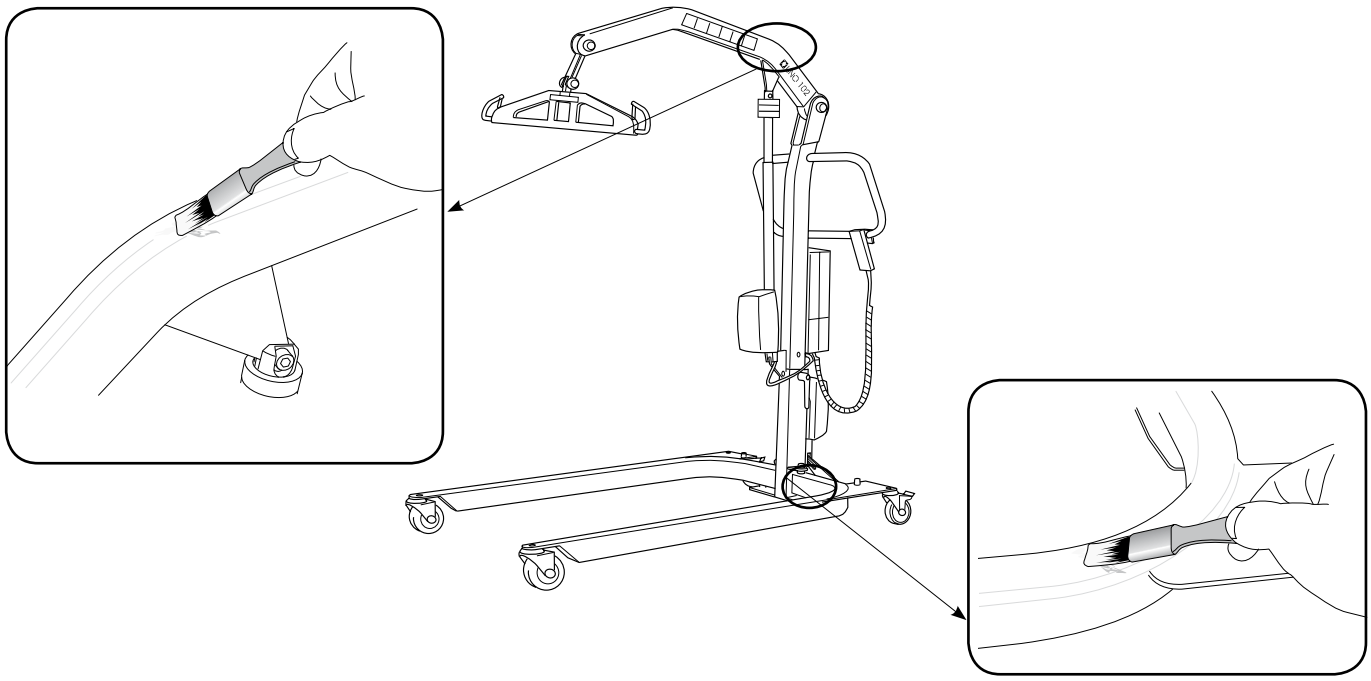
Tools required

Prod. No. 20190048 Lacquer top coat for improve.

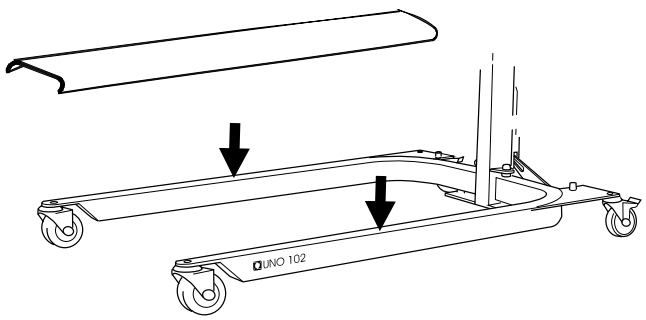
Prod. No. 20190029 Leg Protector Uno 100
Prod. No. 20190006 Leg Protector Uno 102

1. If needed, clean the patient lift with warm water or ethanol.
   NOTE! Avoid regular use of cleaning agents that contain phenol or chlorine, since these can damage aluminium and polyamide material.

2. Touch-up painted surfaces.



3. Replace broken / missing leg protectors



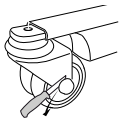
Instructions regarding the check points for Uno 100/102 EM, EE, ES

2. Front castor

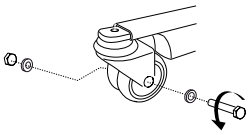
Lift type:	Serial No:	Prod. Year:	Contract No:
			Name:
			Address:
			(Zip Code)

Month	12	24	36	48	60	72	84	96	108	120
Check:	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Replace if worn:					☐					☐

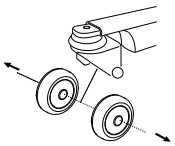
1. Remove cover.



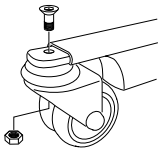
2. Loosen and remove screw.



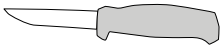
3. Remove and clean the castor wheels. Replace M10 lock-nut and tighten. Re-assemble in reverse order.



4. If wheels are worn or do not roll smoothly, replace them.



Tools required



2x 13 mm

6 mm

17 mm

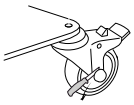
Recommended replacement is every 5th year

3. Rear castor

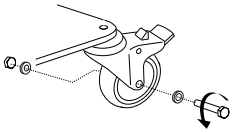
Lift type:	Serial No:	Prod. Year:	Contract No:
			Name:
			Address:
			(Zip Code)

Month	12	24	36	48	60	72	84	96	108	120
Check:	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Replace if worn:					☐					☐

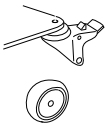
1. Remove cover.



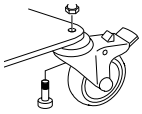
2. Loosen and remove screw.



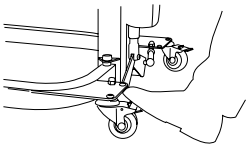
3. Remove and clean the castor wheel and housing. Re-assemble in reverse order.



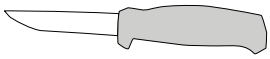
4. If wheels are worn or do not roll smoothly, replace them. Recommended replacement is every 5th year.



5. Check the brakes. They should lock in all directions.

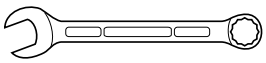


Tools required



2x 10 mm

8 mm

 17 mm

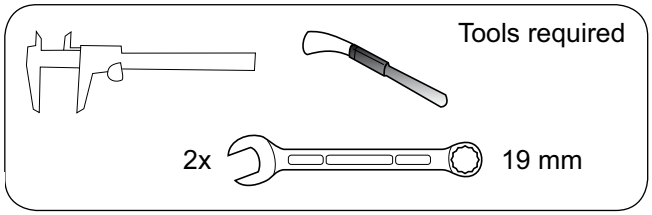
Recommended replacement is every 5th year

Instructions regarding the check points for Uno 100/102 EM, EE, ES

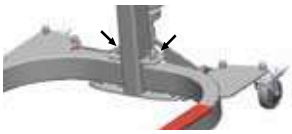
4. Pin bolt lubrication

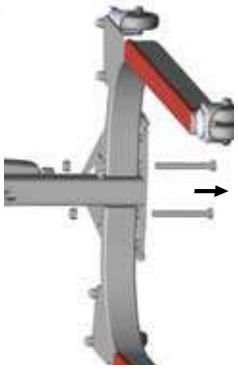
Lift type:	Serial No:	Prod. Year:	Contract No:
			Name:
Month 12 24 36 48 60 72 84 96 108 120			Address:
Check: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐			(Zip Code)
Replace if worn: ☐ ☐			

1. Remove plastic cover from center.



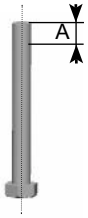
2. Remove pins or locking nuts.



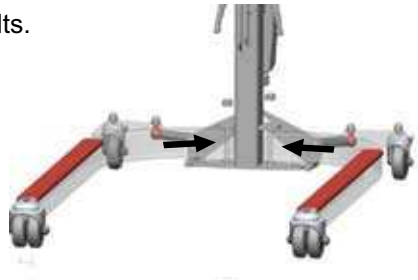


3. Pull out the pin bolts. Before cleaning and lubricating inspect the screw according to fig, 4 and 5.

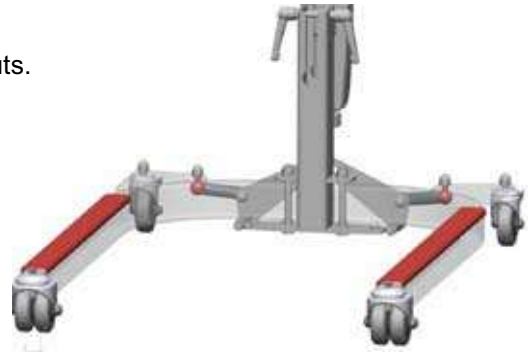
4. Measure pin bolt thread dimension ”A”. If thread dimension “A” not is within 19±2 mm or the pin bolt is worn, replace with Spare part No. 20190057.



5. Clean and lubricate holes and pin bolts.



6. Re-assemble base. Tighten bolts and replace pins or locking nuts.



Recommended replacement is every 5th year

Instructions regarding the check points for Uno 100/102 EM, EE, ES

5A. Actuator linkage

Lift type:	Serial No:	Prod. Year:	Contract No:

Name:

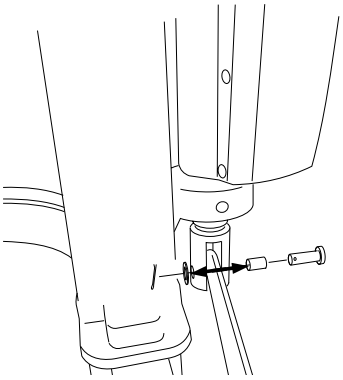
Address:

(Zip Code)

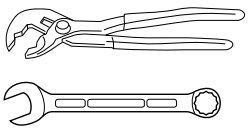
Month	12	24	36	48	60	72	84	96	108	120
No. 1:	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
No. 2-7:			☐			☐			☐	

Electric base linkarm lubrication

1. Remove splitpin, bolt and bushing. Lubricate center pin and plastic bushing. Replace if worn.

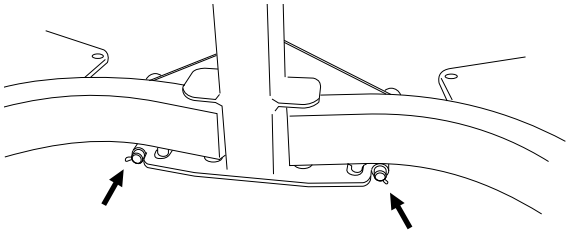


Tools required

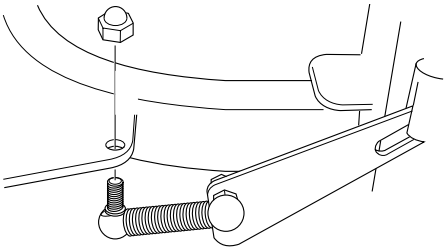


17 mm

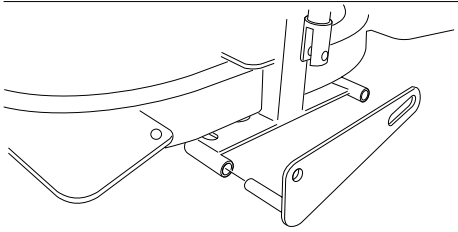
No. 1, every year



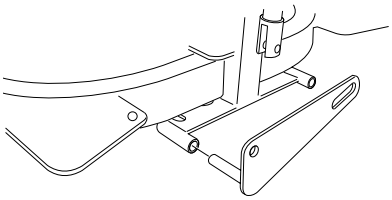
2. Remove split pins.



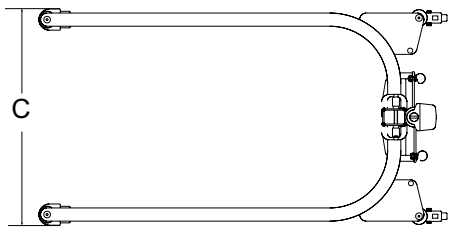
3. Remove locking nut on the link arms.



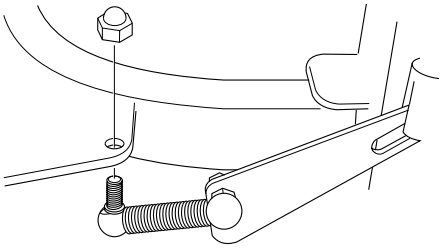
4. Pull out link arms.



5. Clean the link arms and hole in center. Start by brushing grease into the holes. Apply a thin layer of grease to the link arms. Re-assemble in reverse order. 4-1.



6. Adjust base width ("C" in technical data in the Instruction Guide).



7. Adjust the linkarms so that it goes up through the base at a 90-degree angle. Tighten locking nuts, check play after assembly.

No. 2-7, every 3rd year

Instructions regarding the check points for Uno 100/102 EM, EE, ES

5B. Actuator linkage

Lift type:	Serial No:	Prod. Year:	Contract No:

Name:

Address:

(Zip Code)

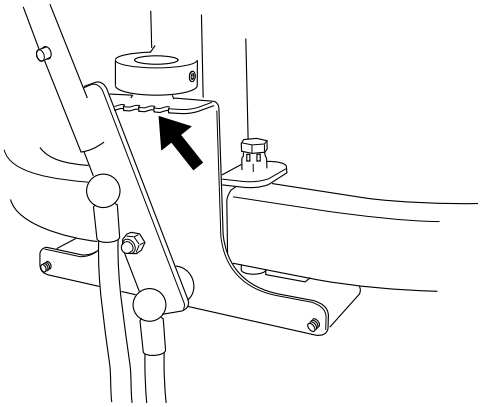
Month	12	24	36	48	60	72	84	96	108	120
Check:	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Replace if worn:					☐					☐

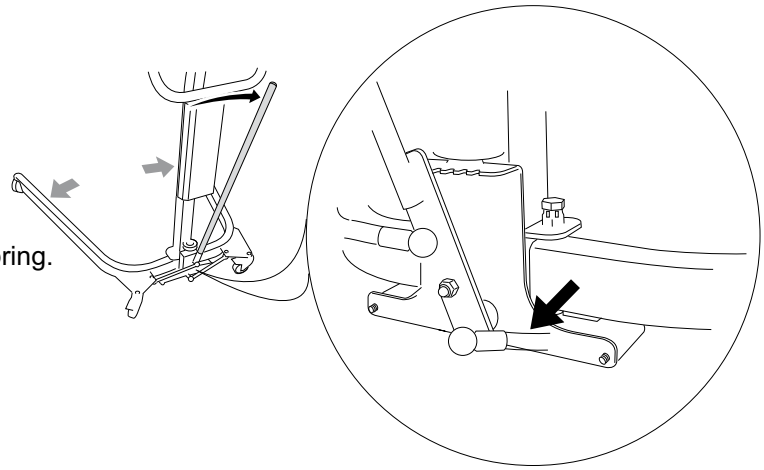
Mechanical base, mounting plate inspection

Tools required

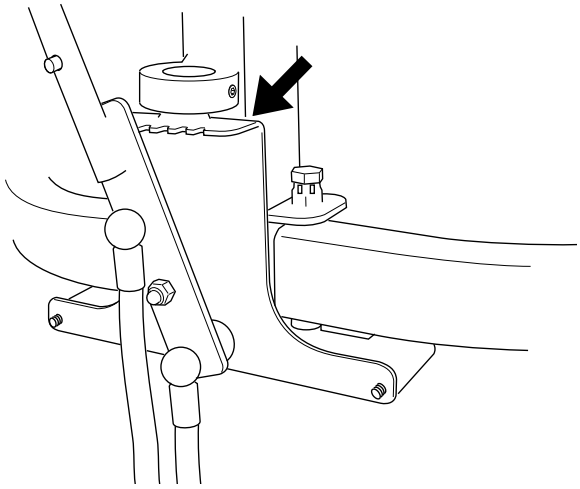
2X 17 mm

1. Replace mounting plate if teeth are worn, with Prod. No. 20190049 Restoration set Manual Base

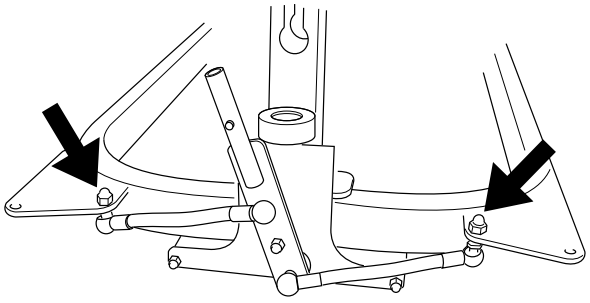




2. Pull back the handle to check compression spring.



3. Ensure that the turnable plate welding is not bent and secures in turnable plate teeth when the handle is released.



4. Inspect linkage arms and ball coupling hardware.

Recommended replacement is every 5th year

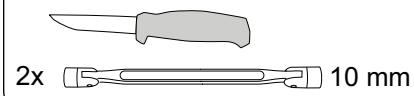
Instructions regarding the check points for Uno 100/102 EM, EE, ES

6. Lift arm

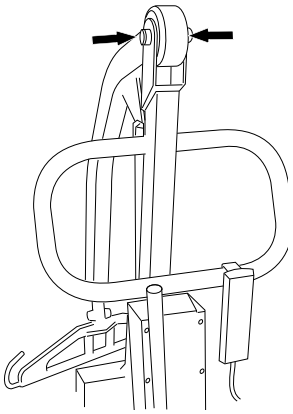
Lift type:	Serial No:	Prod. Year:	Contract No:
			Name:
			Address:
			(Zip Code)

Month	12	24	36	48	60	72	84	96	108	120
Check:	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Replace if worn:					☐					☐

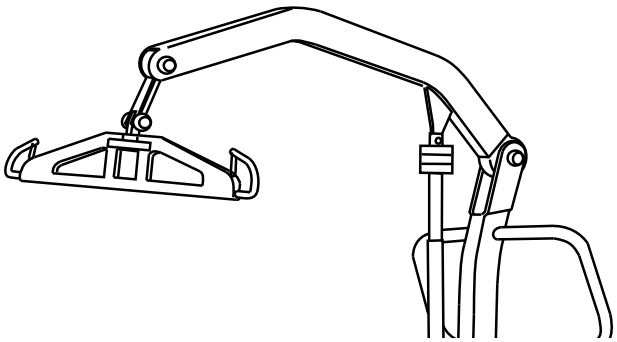
Tools required



1. Remove covers.



2. Remove and lubricate lift arm hardware.
   Visually inspect lift arm plastic shells for wear, cracks or deformation.
   Replace with Spare part No. 20190069 Over head Beam Restoration set, if needed.
   Reassemble in reverse order.



3. Raise up then lower the arm. If a gap appears in the half shell covers, or the lift arm binds and will not completely lower, the screw is to tight.

Recommended replacement is every 5th year

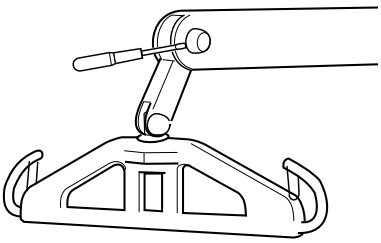
Instructions regarding the check points for Uno 100/102 EM, EE, ES

7. Flexlink

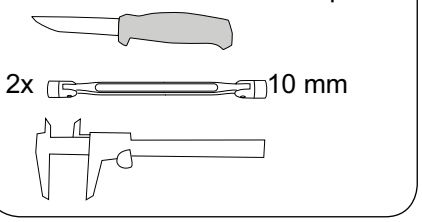
Lift type:	Serial No:	Prod. Year:	Contract No:
			Name:
			Address:
			(Zip Code)

Month	12	24	36	48	60	72	84	96	108	120
Check:	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Replace if worn:					☐					☐

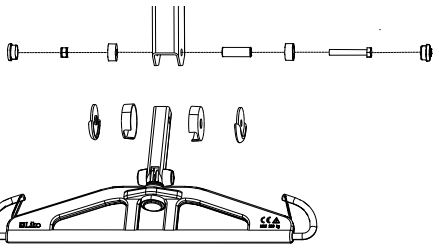
1. Remove covers.

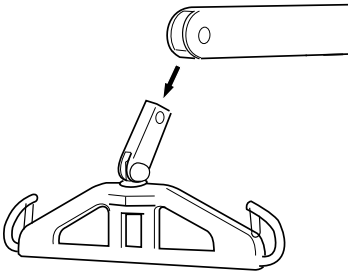


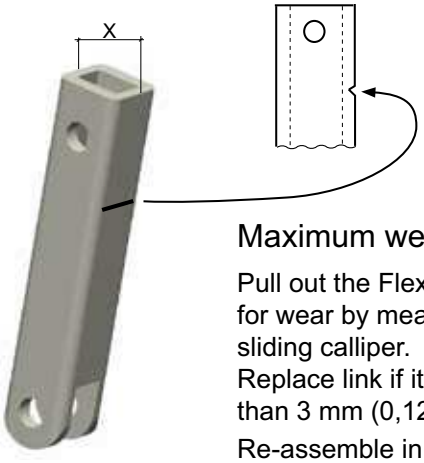
Tools required



2. Remove and lubricate hardware. Inspect shell covers for cracks or gaps.





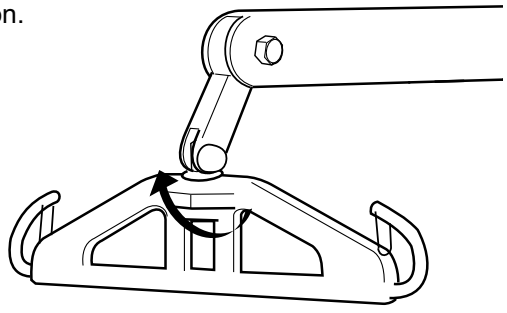


Maximum wear = X -3mm

Pull out the Flexlink and check for wear by measuring with the sliding calliper.
Replace link if its worn more than 3 mm (0,12 inch)

Re-assemble in reverse order.

3. Raise up then lower the sling bar, so that it falls to the lowest position.
If the link does not fall to the lowest position, the screw is too tight.



Recommended replacement is every 5th year

Instructions regarding the check points for Uno 100/102 EM, EE, ES

8. Slingbar

Lift type:	Serial No:	Prod. Year:	Contract No:

Month 12 24 36 48 60 72 84 96 108 120

Check: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

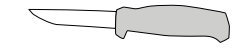
Replace if worn: ☐ ☐

Name:

Address:

(Zip Code)

Tools required

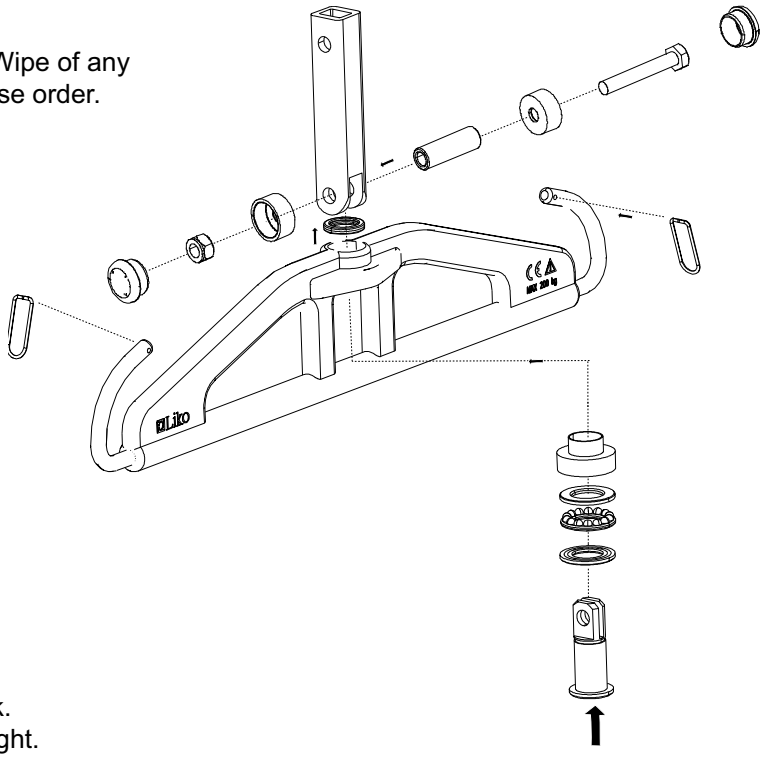


2x 10 mm

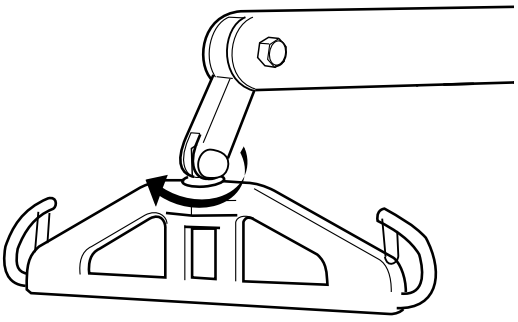
1. Remove and lubricate flexlink to sling bar mounting hardware.

2. Check sling bar bolt and Flexlink for wear.

3. Remove sling bar center bolt and bearing. Wipe of any dirty, dust or residue. Re-assemble in reverse order.



4. Pivot sling bar center bolt within the Flexlink. If the sling bar is binding, the screw is too tight. Check safety latches.



Recommended replacement of slingbar bearings every 5th year

Instructions regarding the check points for Uno 100/102 EM, EE, ES

9. Emergency Lowering Device

Lift type:	Serial No:	Prod. Year:	Contract No:

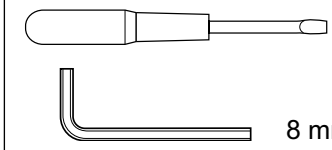
Name:

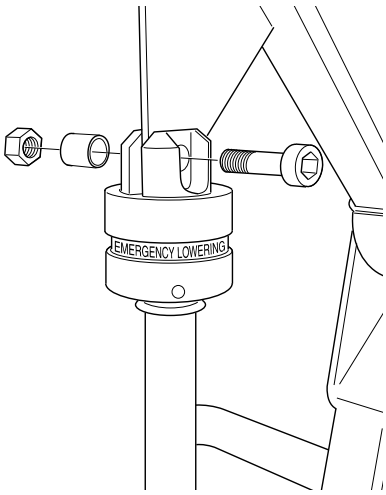
Address:

(Zip Code)

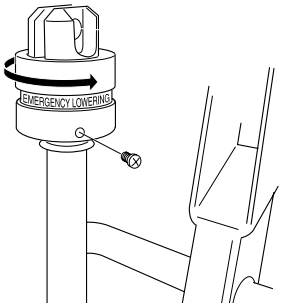
Month	12	24	36	48	60	72	84	96	108	120
Check:	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Replace emerg. lowering set:			☐			☐			☐	

Tools required

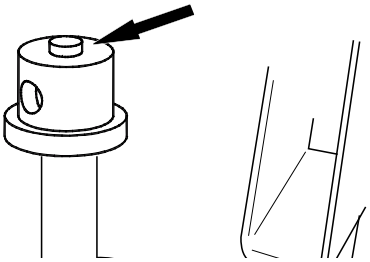




1. Loosen screws and remove cylinder.

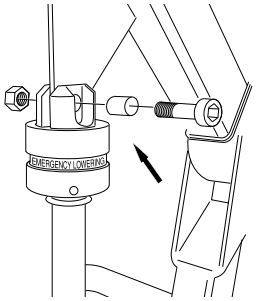


2. Remove the countersunk screw. Remove the red collar as shown. **NOTE!** Turn it slowly to prevent damage to the threads.

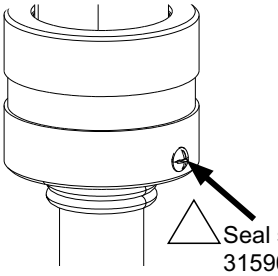


3. Clean the cylinder.

△ ***NOTE! Keep this surface free of grease!***
Mount the new Restoration set Emergency lowering Spare part No. 20190051 according to attached assembly instruction.



4. Clean sleeve and holes in the emergency-lowering device and lift arm. Lubricate sleeve with grease before re-assembly.



△ Seal screw, with 31590015 Seal colour Emergency Lowering.

△ Test the lift with maximum load.

Replace Restoration set Emergency lowering every 3rd year.

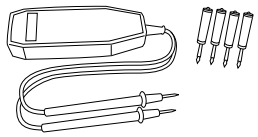
Instructions regarding the check points for Uno 100/102 EM, EE, ES

10. Battery

Lift type:	Serial No:	Prod. Year:	Contract No:
			Name:
			Address:
			(Zip Code)

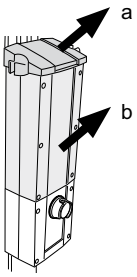
Month	12	24	36	48	60	72	84	96	108	120
Check:	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Replace:			☐			☐			☐	

Tools required

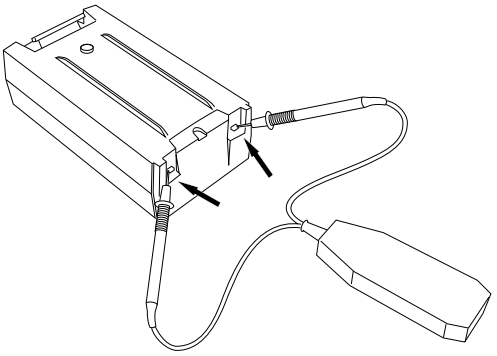


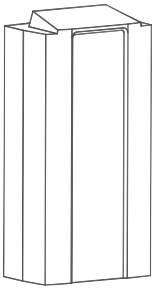
2101100 Battery tester with diodes

1. Remove the charger cable holder, then the battery.



2. Inspect V-shaped metal contacts on the battery pack casing for uniformity. Check the battery with the battery tester Spare part No. 2101100. A signal should be audible for more than 5 sec. If not, replace battery according to attached assembly instruction.

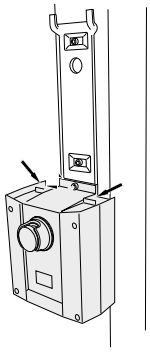




Prod. No. 2006106

3. Inspect V-shaped metal contacts on control box for uniformity. Verify that plastic housing for metal contacts is not damaged/deformed. Tighten screws.

4. Place the removable battery pack into position on top of the control box. Adjust until you hear a clicking sound.



Recommended replacement every three years!

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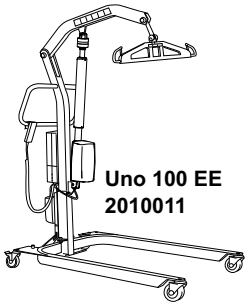
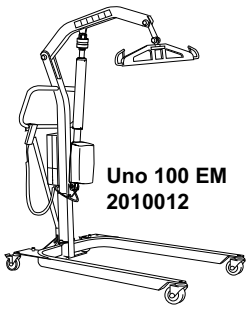
Product changes

Prod. No: 2010011, 2010012, 2010003, 2010004, 2010005

2009-11-18





Changes	S/N Uno 100	S/N Uno 102	Project
2009			
New spare pars are recommended; 20190068 Lift arm plastic cover, and 20190069 Overhead beam restoration set. Information regarding control that the outer tube is mounted, is added to Periodic Inspection.	7096200	48100	1262
2008			
Outer tube introduced on all models. Holder for Quick Reference Guide introduced on all models. Bearing between arm/mast (bearing 52), arm / alu.link (bearing 40), alu.link / sling bar (bearing 24).	7096200	48100	748
2006			
Sealing of screw, emergency lowering.		46426	
New joint between actuator / arm and base.		46426	
Plastic covers at screw joint on mast / sling bar / flex link.	7095093	46115	
2005			
New locking handle for mast.	7094641	45486	
Emergency guard for control box.	7094505	45197	
Bigger hole on motor attachment, arm.	7094429	45055	
2003			
New screw M6S M12x105.	7093162	42292	
New center. Locking nut M12 instead of welded nut.	-	41551	
New center.	7092716	-	
All Uno 100 have new Max load 205kg. (old: 175 kg)	7092499	-	
2002			
Plastic washer 12,5/20x0,42 is added to the emergency lowering.	7092109	39901	

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Prod. No: 2010011, 2010012, 2010003, 2010004, 2010005

Changes	S/N Uno 100	S/N Uno 102
2000		
New cover tube on EM models. (12mm)	7091394	36587
New width on base.	7090798	35408
Sling bar in stainless performance.	7090704	35037
1999		
Bolt M12x105 greased with FluorFlon.	7090602	34770
Hold in back edge of LA2, removed.	7090436	33827
1998		
Locking handle on all Uno models.	7090277	33475
Stop screw in emergency lowering, countersunk.	7090217	33188
New screw in Flex link M6S M10x42.	7090201	33016
Plastic cover with cable hanger on battery pack.		33016
Slimmer handles, Uno 102.		32910
New bushing on emergency lowering device.		32822
Hole in center is moved offset from center, Uno 102.		
1997		
New alu. link and plastic cover mast, Uno102. (31941-55, 32074-96 has old link)		31825
Cover IKPT1512G on control box.		31758
First Uno 100EE.	7090001	
Plastic cover mast assembled at all models.		31213
Grey cover hats at wheels.		30726
1996		
Leg protection on all Uno models.		30073
New models Uno102 EM, EE, ES.		30001
Casing at screw MC6S M10x25 between emergency lowering/arm.		21123
These twenty Uno 102 has black details.		20913 - 20932
Bag for charger.		20863
Screw between emergency lowering / arm locked with loctite.		20838
Grey actuator (KSM300, LA28), control box and hand control.		20837